

红相科技  
ULIRVISION

# G330

## VOCs Gas Optical Thermal Imaging Camera



# 01









## PRODUCT PRESENTATION

VOCs Gas Optical Thermal Imaging Camera is a non-contact device, it can quickly scan VOCs natural gas pipelines and equipment, real-time and intuitively locate the VOCs gas leak points and accurately measure the temperature by thermal images, so as to achieve VOCs natural gas long-distance rapid detection of pipelines and equipment.



# 02

## PRODUCT FEATURE

-  High sensitivity cooled detector, sensitivity  $\leq 0.01^{\circ}\text{C}$
-  VOCs gas detection sensitivity  $\leq 0.4\text{g/hr (CH}_4\text{)}$
-  High sensitivity mode Small gas leakage can be detected
-  It can be used for VOCs gas imaging leak detection and thermal temperature measurement
-  Pictures and videos are stored in SD card directly
-  It is small in size and weighs only **2.8kg**
-  Intelligent operation
-  Explosion-proof:  
**Ex ic nC op is IIC T4 Gc**

# 03

## APPLICATION SCENARIO

- Oil refinery
- Refinery
- Gas station
- Chemical treatment plant
- Hazardous chemicals parking lot
- Hazardous chemicals storage tank area
- Biogas power plants
- Natural gas power plants
- Offshore oil platforms
- Natural gas enterprises
- Natural gas stations
- Natural gas well sites
- Natural gas storage facilities
- Natural gas transmission pipelines
- Pharmaceutical enterprises
- Pesticide enterprises
- Safety Supervision Bureau
- Fire Bureau
- Maritime Safety Administration
- Ecological Environment Law Enforcement Team
- LDAR Testing Service Company
- City (County) Motor Vehicle Exhaust Pollution
- Pesticide plants



# 04 PRODUCT SPECIFICATION

Item		G330
Detector Data	Type	High sensitivity cooled detector
	IR resolution	320x256
	Pixel pitch	30μm
	Spectral range	3.1~3.5μm
	NETD/Sensitivity	10mK
	Gas sensitivity	≤0.4g/hr (CH <sub>4</sub> )
Lens Data	FOV / Focal Length	14°x11.2° / 39mm
	Minimum imaging distance	0.5m
	I FOV	0.77mrad
	Focus	Manual / Motor / Auto
	Lens(optional)	24 ° x 19.2 ° / 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	1~8X Digital zoom
	Palette	12 palettes (including iron red, rainbow, black hot and white hot, etc.)
	Contrast/Brightness	Auto / Manual
Measure	Temperature range	-20°C~+350°C
	Measurement mode	Real-time 10 movable spots, 5 movable 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°C accuracy ±1°C, -20°C~0°C or >+100°C 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 °C/°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
	Single frame visible image format	Single frame, JPEG format
	Video storage method	HD videos are stored in the memory card in MPEG4 / H.264, each segment can be up to 1h
	Voice annotation	40s voice record, stored with 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	Smart charging stand or DC14V 3A power adapter
	Power saving	Yes
Environment Parameters	Operating temperature range	-20°C~+50°C
	Storage temperature range	-30°C~+60°C
	Humidity	≤95% (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)
Explosion-proof	Ex ic nC op is II C T4 Gc	
Physical data	Size	262mm (L) x174mm (W) x154mm (H)
	Weight	≤2.8kg(with standard lens& battery)
Gas Detection		Methane, ethane, butane, propane, octane, pentane, heptane, hexane, ethylene, propylene, benzene, toluene, ethylbenzene, xylene, ethanol, methanol, isoprene, MEK, MIBK, 1-pentene
Packing	Standard	Thermal imaging camera, 2 lithium batteries, battery charger, adapter, vehicle power converter, SD card, card reader, USBflash drive, warranty card, certificate, headset, carrying case, video cable, user manual
Quality assurance	ISO9001	Yes

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\* This manual is for reference only. Due to product updates and improvements, contents and parameters are subject to change without notice.