



VOCs Gas Optical Thermal Camera **G330**

G330 VOCs Gas Optical Thermal Imaging Camera

The **G330** VOCs Gas Optical Thermal Imaging Camera is a non-contact measurement and detection device, it can quickly scan VOCs natural gas pipelines and equipment, real-time and intuitively locate the VOCs gas leak spots and measure the temperature accurately using the built-in thermography camera to record images and videos.

Features:

- High sensitivity cooled detector, sensitivity $\leq 0.01^{\circ}\text{C}$
- Compact, ergonomical and weight of only 2.8kg
- VOCs gas emission detection sensitivity $\leq 0.4\text{g/hr}$ (CH₄)
- Small and larger gas leaks can be detected
- VOCs gas leak / fugitive gas emissions detection
- Temperature measurement (thermography) capability
- Images and video are stored on an internal SC card
- Explosion-proof certification (Ex ic nC op is II C T4 Gc)



Specifications:

Detector	Cooled high sensitivity
Detector resolution	320 x 256 pixels
Pixel pitch	30 μm
Spectral range	3.1 – 3.5 (MWIR)
Field of View (FOV)	14° x 11,2° with 39mm lens Optional: 24° x 19.2° with 23mm lens
IFOV	0.77mrad
Focus	Manual / Motor / Auto
Frame rate	50Hz
LCD display	HD 5.0", 1280 x 720, rotatable touch screen
Visual camera	5 MP CMOS, Autofocus, 1 LED -II light
Magnification	1X ~ 8X digital zoom
Color palette	12 color palettes
Thermal sensitivity (NETD)	10mK
Contrast and brightness (level and gain)	Auto / Manual
Temperature range	-20°C ~ +350°C
Measurement accuracy	0~100°C: accuracy $\pm 1^{\circ}\text{C}$ -20°C ~ 0°C or > 100°C: accuracy $\pm 2\%$



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Specifications (cont'd):

GPS	Yes
Emissivity correction	Adjustable from 0.1 to 1.0 or selectable materials table
Memory card	128GB
Image storage	Auto/manual single frame image or dynamic recording
Single IR image storage	JPEG, with 14-bit measured data image
Video storage	HD video: memory card in MPEG4 / H.264 up to 1 hour
Voice annotation	40s voice recording per stored image
Laser pointer classification	Class 2
Laser power	1mW, wavelength 635nm red
Power interface	Yes
Video output	HDMI
Communication interface	WIFI, Bluetooth, USB
Audio output	Yes
SD card slot	Yes
Tripod	1/4" _20
Gas detection:	Methane, Ethane, Butane, Propane, Octane, Pentane, Heptane, Hexane, Ethylene, Propylene, Benzene, Toluene, Ethylbenzene, Xylene, Ethanol, Methanol, Isoprene, MEK, MIBK, 1-pentene
Battery type	Lithium battery, rechargeable
Operating time	3 hours continuous (room temperature)
External power	DC: 14V
Charging type	Smart charging stand or DC14V 3A power adapter
Power saving	Yes
Operating temperature range	-20°C ~ +50°C
Storage temperature range	-30°C ~ +60°C
Humidity	≤ 95% RH (non condensing)
EMC	EN61000-6-4 & EN61000-6-2, FCC47CFR Part 15 Class A, EN61000-4-8 L5
Operating temperature	-40°C~+60°C
Storage temperature	-50°C~+70°C
Vibration	2G (IEC60068-2-6)
Shock	25G (IEC60068-2-29)
Enclosure	IP54 (IEC60529)
Physical data:	
Dimensions	262mm (L) x 174mm (W) x154mm (H)
Weight	≤ 2.8kg (with standard lens & battery)
G330 system	Thermal imaging camera, 2 Li-Ion batteries, battery charger, adapter, vehicle power converter, SD card, card reader, software CD, warranty card, calibration certificate, headset, carrying case, video cable, user manual



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