Main Parameters

Model		G600C	G600F
Version		Overseas	
Thermal Imaging Parameters	Detector Type	Uncooled VOx	
	Detector Resolution	640×512	
	Infrared Spectral Band	7.0-8.5μm	10.55μm central wavelength
	Gases Detectable	Methane, nitrous oxide, sulfur dioxide, phenol, ethyl acrylate,2-Ethylhexyl acrylate, Freon (R13, R13B1, R123, R125, R134A, R417A, R422A, R508A, etc.)	Sulfur hexafluoride, ammonia, ethylene, ethylene ether, vinyl chloride, trichloroethylene,methyl vinyl ketone, propylene, acrolein, acrylonitrile, ethyl cyanoacrylate, allyl fluoride, allyl chloride, allyl bromide, furan, etc.
	Pixel Size	12μm	
	Thermal Sensitivity	23mK	
	IFOV (Spatial Resolution)	0.63mrad	
	Detector Frame Rate	30Hz	
	Focal Length	19mm	
	FOV	23°×18°	
	Focusing Mode	Manual focusing	
	Measurement Range	-20 °C～ +120 °C	
	Measurement Accuracy	±2% or ±2°C	
	Resolution of Temperature Measurement	0.1°C	
Camera Functions	Temperature Measuring Mode	Center point/hot and cold spot tracking and temperature display	
	Customized Measurement on Points, Lines, and Areas	Movable points/lines/areas; up to 10 points, areas, and lines	
	Temperature Measuring Unit	Celsius, Fahrenheit, Kelvin	
	Emissivity Settings	Adjustable between 0.01 and 1.00 with a step size of 0.01	
	Ambient Temperature Settings	-10°C to +50°C with a step size of 1°C	
	Distance Settings	1-20m with a step size of 1m	
	Image Mode	Infrared, dual-spectrum fusion, visible light, PIP	
	Palettes	10	
	Temperature Alarm	Available	
	Alarm Type	Image alarm	
	Temperature Scale	Manual/Auto temperature range	
	Laser Pointer	Available	
	Visible Light Camera	5 megapixels	
	Video/Photo Storage	XX-IR.jpg (Infrared image with temperature data) and XX-DC.jpg (visible-light image); videos without data	
	Voice Annotation	Available	
	Language	English + other languages (Polish, Russian, Korean, Hungarian, Portuguese (Brazil), German, French, Spanish, Italian, Turkish, Traditional Chinese, Japanese), 13 languages in total	
	Display Size	3.5-inch touch screen (480 × 640)	
	Image Naming	Auto/manual naming, naming by scanning QR code	
	Memory Card	Standard 32 GB MicroSD card	
	Battery	Rechargeable and detachable lithium-ion battery	
	Power Interface	USB TypeC	
	Connecting Methods	USB, SD card, WiFi (AP mode or networking mode)	
	Charging Time	About 3 hours	
	Operating Time	About 3 hours	
	Power Management	Automatic shutdown: 5 minutes, 10 minutes, 20 minutes, never	
Others	Analysis Software	PC&APP	
	Tripod	Available	
	Operating Temperature	-10 ～ +50°C	
	Storage Temperature	-20 ～ +60°C	
	Relative Humidity	10%~95%, non-condensing	
	Drop Protection	2m	
	IP Grade	IP54(IEC 60529)	
	Shock and Vibration	Impact 25g (IEC 60068-2-27);vibration 2.5g (IEC60068-2-6)	
	Dimensions (H×W×D)	256.4 ×105.1 × 105.3mm	
	Weight	About 670g	
	Authentication	CE/FCC/UKCA/ROHS	
	Accessories	5V 2A power adapter, USB cable, SD card, battery×2, QSG, desktop charger, calibration certificate, package list	

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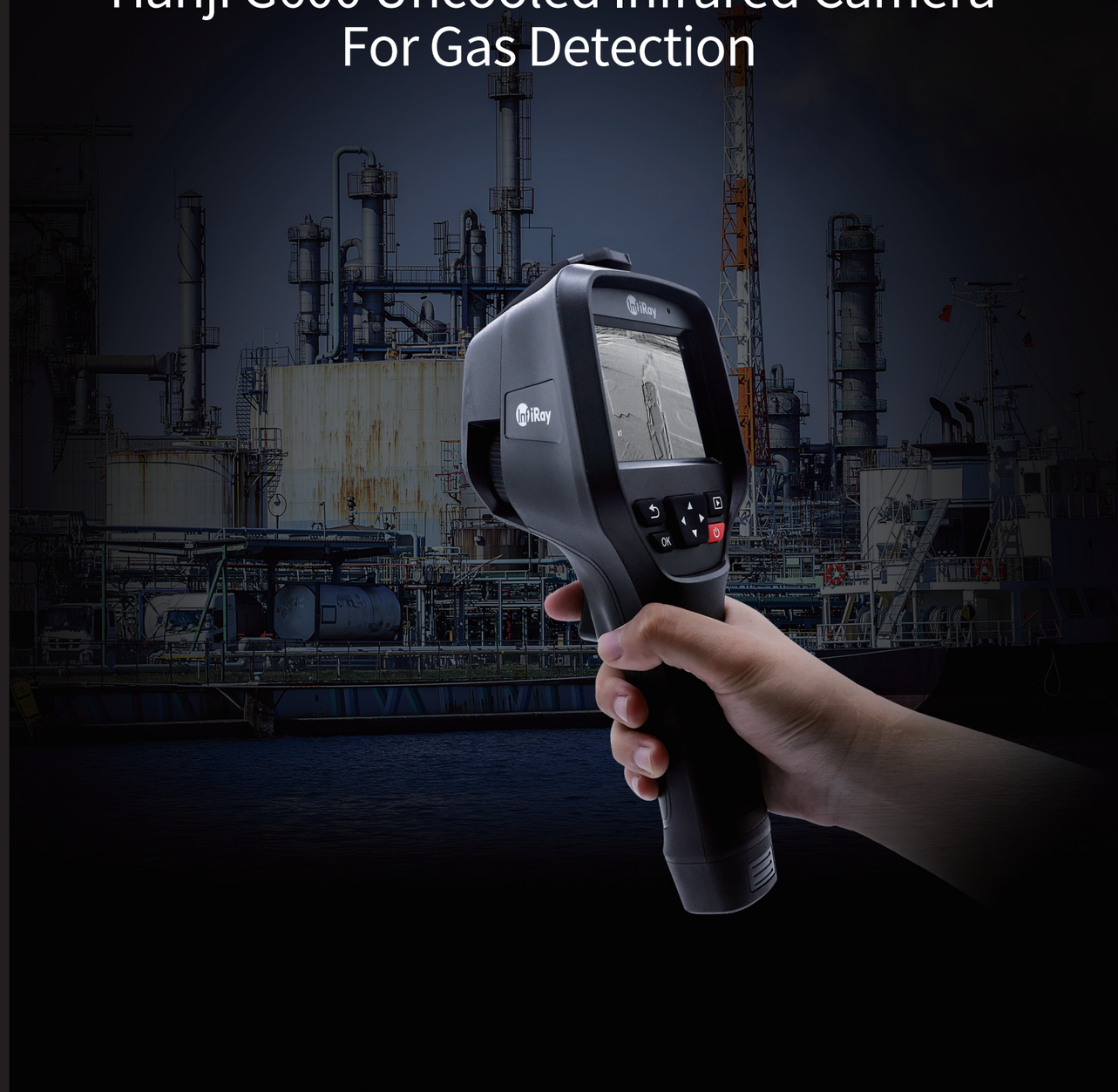
Tianji G Series

Tianji G600 Uncooled Infrared Camera For Gas Detection



Tianjin G600

Gas leakage during industrial production has long been a knotty problem. It is also time-consuming, and laborious for routine inspection because it is invisible to the naked eye.

InfiRay G600 Series HD Uncooled Infrared Camera For Gas Detection can quickly locate gas leakage of natural gas (CH4), refrigerant (Freon), ammonia (NH3), and sulfur hexafluoride (SF6) in the form of non-contact thermal imaging.

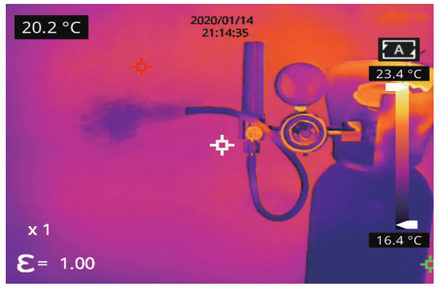
1 HD band-pass infrared detector for clearer gas detection

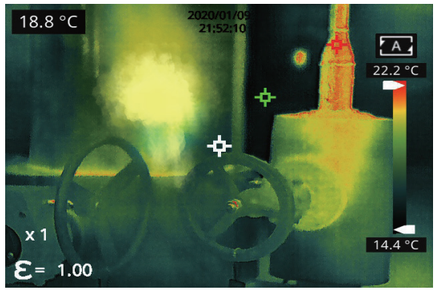
- Custom band-pass filter detector (C: 7.0-8.5 μm, F: central wavelength 10.55 μm), eliminating stray light interference for clearer gas detection.
- Thermal sensitivity close to cooled detectors: as low as 23 mK to capture more trace gas.
- 640×512 infrared resolution, with clear image details.
- 23° custom lens, with a spatial resolution (IFOV) as low as 0.63 mrad, providing wider working distances or finer gas details.

2 Various types of gases detectable

- Selective infrared band, making it possible to detect dozens of gases including methane, sulfur hexafluoride, ethylene, ammonia, Freon, nitric oxide, and sulfur dioxide.

CH_4	SF_6	C_2H_4	NH_3	SO_2
Methane	Sulfur hexafluoride	Ethylene	Ammonia	Sulfur dioxide





3 Versatile and easy to complete multiple tasks

- Temperature measurement accurate to ±2%, easy for gas leakage detection and temperature measurement.
- 3.5-inch touch screen + integrity analysis function: a complete package of assistance from routine inspection site to report output, helping you complete tasks easily.
- 670g only, more convenient for routine inspection.
- Combined use of infrared light and visible light, making it easier to locate gas leakages.

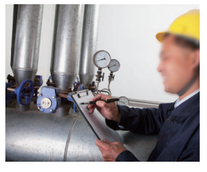
4 IIC T4 explosion-proof, suitable for dangerous occasions

- With Ex ic II C T4 explosion-proof grade, G600 can be used safely in petroleum, petrochemical, natural gas, and other industries.

Ex ic II C T4

Explosion-proof certification

Application Fields



Routine Inspection for Natural Gas Safety

Detection of Refrigerant Leakage

Inspection of Ammonia Leakage

Detection of Sulfur Hexafluoride Leakage

Routine Inspection in Petroleum and Petrochemical Industries