## 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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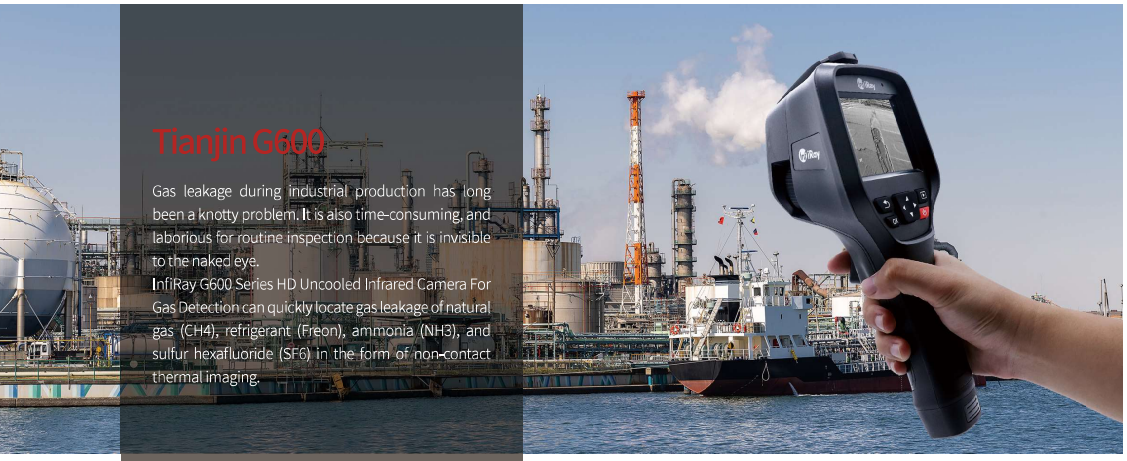
InfiRay

# 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.

InfiRay

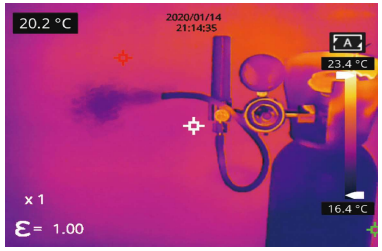
## 1 HD band-pass infrared detector for clearer gas detection

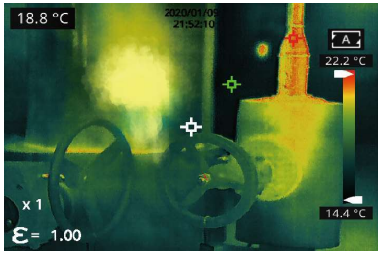
- Custom band-pass filter detector (C: 7.0-8.5 μm, F: central wavelength 10.55 μm), eliminating stray light interference for clearer gas detection.
- Thermal sensitivity close to cooled detectors: as low as 23 mK to capture more trace gas.
- 640×512 infrared resolution, with clear image details.
- 23° customlens, 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