G600 Series
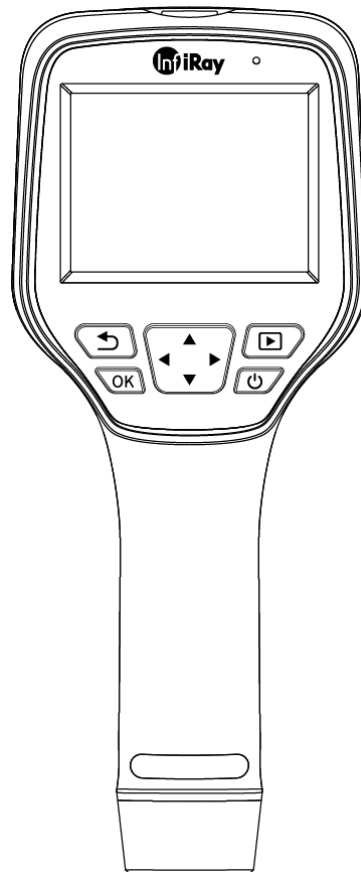
Handheld Thermal Cameras

Technical Data V1.0.2

IRay Technology Co., Ltd.

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1. Overview

1.1 Update Comments

Our manuals are updated several times per year. Please visit our website to access the latest manuals.

1.2 Authorized Release Notes

The authorized release of this manual is the Chinese version. In case of disagreement due to translation errors, the Chinese version shall prevail. If there is any update in the future, the Chinese version will be revised first.

2. G600 Series Technical Data

General
G600 features InfiRay® self-developed uncooled VOx detector with high spatial resolution and high sensitivity to realize the visual observation of gas and meet the temperature measurement demand of industrial plants. G600 can detect CH_4, SF_6, NH_3 and other gases. It is ideal for petroleum, chemical, natural gas and electric power industries to routinely maintain equipment, prevent accidents and protect the atmospheric environment.

Advantages
1. Gas Detection+Temp Measurement: meet various application requirements of industries.
2. Improved Gas Detection Capability: adjustable detection levels for better effect.
3. Spots/Lines/Regions Measurement: select target as needed.
4. Multiple Image Modes: Reveal more details via infrared, visible light, PIP and fusion.
5. 3.5 inch LCD Touch Screen: 640×512 high-resolution infrared image enables more to be seen.
6. Laser Pointer, Fast Locating: Bulit0in laser allows quick location of targets.

2.1 G600C

Parameters	Descriptions
Detector Type	Uncooled VOx infrared detector
Spectral Range	7.0~8.5μm
Detector Resolution	640*512
Pixel Pitch	12μm
Focal Length	19mm
FOV	23°×18°
Focus Mode	Manual
Measurement Range	-20 ℃~120 ℃
Measurement Accuracy	±2% or ±2℃ (The greater shall prevail)
Measurement Mode	Center/hot and cold spot detection and temperature display
Spots, Lines and Areas Measurement	Movable spot/line/area temperature measurement; displaying hot spot tracing for line/area measurement; displaying the highest temperature value for line measurement, and displaying the highest, lowest and average values for area measurement
Color Palettes	10
Temperature Alarm	Full frame highest/lowest temperature alarm (above/below threshold)
Range of Temperature Scale	Yes
Laser Pointer	Yes
Digital Camera	500W
Digital Zoom	Max. 8×

Parameters	Descriptions
Photo/Video Storage	IR.jpg image+visual.jpg picture with temperature data; video without data
Language	Traditional Chinese, English, French, Spanish, Italian, Brazilian Portuguese, German, Polish, Russian, Korean, Hungarian, Turkish, Japanese.
Display	3.5-inch touch screen （480*640）
Image Naming	Automatic, manual, naming by scanning QR code
Memory Card	32GB MicroSD card
Battery Type	Rechargeable and removable Li-ion battery
Power Interface	USB Type C
Connection Type	USB, SD card, hotspot
Power Management	Automatic shutdown：5min, 10min, 20min or disabled
Operating Temperature	-10℃～+50℃
Storage Temperature	-20℃～+60℃
Relative Humidity	10%～95%，non-condensing
Dimensions （H×W×D）	256.4mm×105.1mm×105.3mm
Weight	About 670g
Mounting Type	Tripod mounting
Gases Detectable	Methane Nitrous oxide Sulfur dioxide Phenol Ethyl acrylate 2-Ethylhexyl acrylate R13 R13B1 R123 R125 R134A R417A R422A R508A

2.2 G600F

Parameters	Descriptions
Detector Type	Uncooled VOx infrared detector
Spectral Range	Central wavelength 10.55µm
Detector Resolution	640*512
Pixel Pitch	12µm
Focal Length	19mm
FOV	23°×18°
Focus Mode	Manual
Measurement Range	-20 ℃~120 ℃
Measurement Accuracy	±2% or ±2℃ (The greater shall prevail)
Measurement Mode	Center/hot and cold spot detection and temperature display
Spots, Lines and Areas Measurement	Movable spot/line/area temperature measurement; displaying hot spot tracing for line/area measurement; displaying the highest temperature value for line measurement, and displaying the highest, lowest and average values for area measurement
Color Palettes	10
Temperature Alarm	Full frame highest/lowest temperature alarm (above/below threshold)
Range of Temperature Scale	Yes
Laser Pointer	Yes
Digital Camera	500W
Digital Zoom	Max. 8×
Photo/Video Storage	IR.jpg image+visual.jpg picture with temperature data; video without data
Language	Traditional Chinese, English, French, Spanish, Italian, Brazilian Portuguese, German, Polish, Russian, Korean, Hungarian, Turkish, Japanese.
Display	3.5-inch touch screen （480*640)
Image Naming	Automatic, manual, naming by scanning QR code
Memory Card	32GB MicroSD card
Battery Type	Rechargeable and removable Li-ion battery
Power Interface	USB Type C
Connection Type	USB, SD card, hotspot
Power Management	Automatic shutdown：5min, 10min, 20min or disabled
Operating Temperature	-10℃ ~ +50℃
Storage Temperature	-20℃ ~ +60℃
Relative Humidity	10%～95%，non-condensing
Dimensions （H×W×D)	256.4mm×105.1mm×105.3mm
Weight	About 670g

Parameters	Descriptions
Mounting Type	Tripod mounting
Gases Detectable	Sulfur hexafluoride Ammonia Ethylene Ethylene ether Vinyl chloride Trichloroethylene Methyl vinyl ketone Propylene Acrolein Acrylonitrile Ethyl cyanoacrylate Allyl fluoride Allyl chloride Allyl bromide Furan

3. Mechanical Drawings