

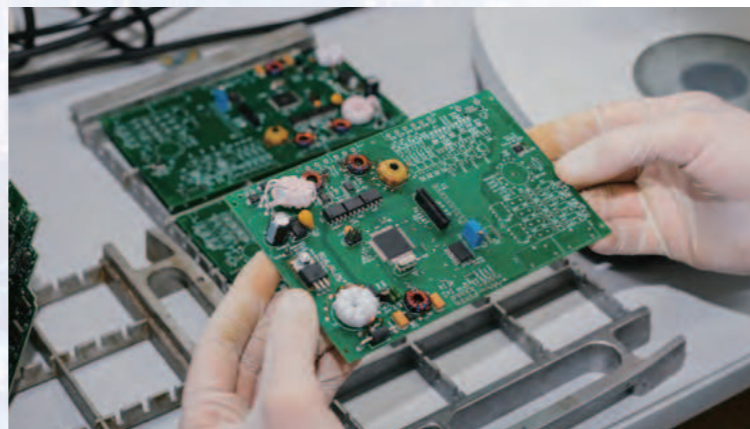
# Industrial Thermal Camera Product Catalog



# Empower Various Industries



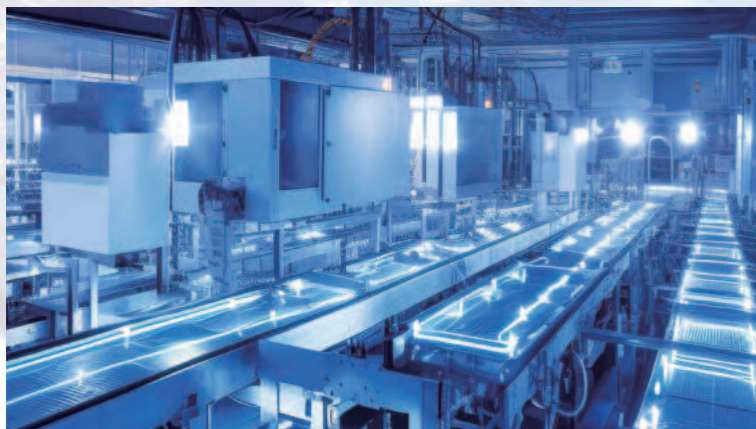
► Gas Detection



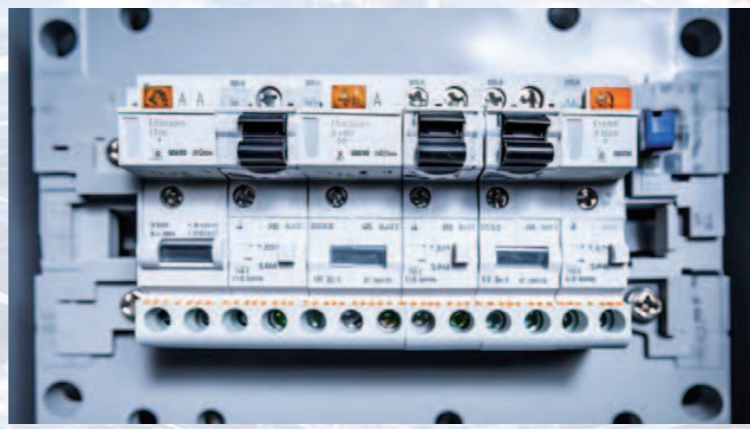
► Product R&D



► Power Utilities



► Machine Vision



► Electrical Maintenance



► Oil, Gas and Petrochemical



► Green Energy



► HVAC Inspections



► Metal Processing

# Jiangsu Yijinghao electronic Technology Co., LTD

Committed to providing customers with professional and competitive domestic infrared thermal imaging products and industry solutions. The main products include fully domestic thermal imaging core modules and application terminal products.



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# AX2 AIR

## Wireless Thermal Camera for Smart devices

Equipped with a high-sensitivity 256×192 resolution infrared detector, the AX2 AIR can be freely combined or separated with a smartphone according to the scenarios. It supports 8m wireless image transmission and operation. With the supporting App for functions such as real-time analysis and transmission, the device can be widely used in electrical maintenance, equipment inspection, HVAC leak detection, and other fields.



### Product Highlights

#### Wireless Measurement, Unlocking New Scenarios

- Up to 8m\* wireless image transmission.
- Image transmission delay < 300ms.
- With 2 hours of battery life, productivity is always alive.



#### Clear Thermal Images, Precise Temperature Measurement

- Built-in 12μm 256×192 infrared detector, featuring low power consumption and small size.
- 40mK professional-grade high thermal sensitivity, capturing smaller temperature differences; wider temperature measurement range of up to 550°C.
- Four image modes + 7 palettes, suitable for temperature observation of different targets and different scenes.



#### Hard-core Configuration, Easy to Use and Convenient

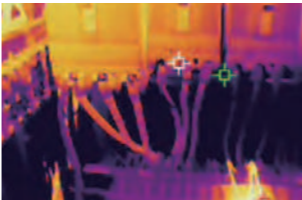
- IP54 waterproof and dustproof, 2m drop protection, light and slim design that fits your hand, weighing only 132g.
- Faster Wi-Fi connection with the assistance of Bluetooth; OTA upgrade can be easily completed through the mobile app.
- Professional app that supports full-scenario applications such as real-time analysis and offline analysis of temperature measurement images.



### Specifications

| Thermal Imaging            |                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type              | 12μm uncooled infrared detector                                                                                                                                         |
| Infrared Resolution        | 256×192                                                                                                                                                                 |
| Spectral Band              | 7.5~14μm                                                                                                                                                                |
| Thermal Sensitivity (NETD) | <40mK (25°C,F1.0)                                                                                                                                                       |
| Frame Rate                 | 25Hz                                                                                                                                                                    |
| Lens Focal Length          | 3.2mm                                                                                                                                                                   |
| FOV                        | 56°×42°                                                                                                                                                                 |
| Spatial Resolution (IFOV)  | 3.75mrad                                                                                                                                                                |
| Focus Mode                 | Fixed focus                                                                                                                                                             |
| Minimum Imaging Distance   | 0.3m                                                                                                                                                                    |
| Measurement Range          | -20°C~+150°C, 100°C~550°C                                                                                                                                               |
| Measurement Accuracy       | ±2°C or ±2% of readings,whichever is greater.                                                                                                                           |
| Image Display              |                                                                                                                                                                         |
| Visible Light Camera       | 2 megapixels                                                                                                                                                            |
| Palettes                   | 7                                                                                                                                                                       |
| Image Mode                 | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                                      |
| Temperature Width Stretch  | Auto                                                                                                                                                                    |
| Measurement and Analysis   |                                                                                                                                                                         |
| App Analysis Function      | Central temperature point/Highest temperature point/Lowest temperature point, 1 preset analysis template (support 3 custom points, 3 custom lines, and 3 custom frames) |
| System Functions           |                                                                                                                                                                         |
| Communication Protocol     | Wi-Fi, USB, Bluetooth                                                                                                                                                   |
| Remote Access and Control  | Connection to smart devices via WiFi, up to 8m away                                                                                                                     |
| Others                     |                                                                                                                                                                         |
| OTA                        | Support OTA upgrade                                                                                                                                                     |
| Battery                    | 1050mAh                                                                                                                                                                 |
| Battery Life               | About 2h                                                                                                                                                                |
| Charging Mode              | USB Type-C                                                                                                                                                              |
| Clamp Width                | Minimum 131mm/Maximum 172mm                                                                                                                                             |
| Tripod Socket              | UNC 1/4-20 interface for tripod                                                                                                                                         |
| Operating Temperature      | -10°C~+50°C                                                                                                                                                             |
| Operating Humidity         | 10%~90% (non-condensing)                                                                                                                                                |
| Storage Temperature        | -20°C~+60°C                                                                                                                                                             |
| Ingress Protection Rating  | IP54                                                                                                                                                                    |
| Shock and Vibration        | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                             |
| Weight and Dimensions      | About 132g, 135.6×41×29.1mm                                                                                                                                             |
| Authentication             | CE/RoHS/CMA, etc.                                                                                                                                                       |
| Packing List               | Thermal camera×1, USB cable                                                                                                                                             |

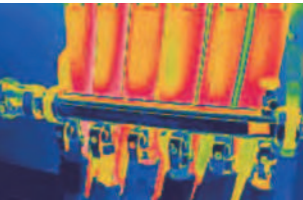
### Applications



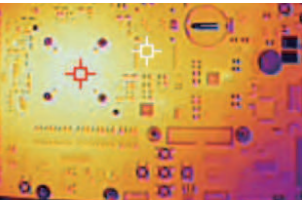
Power Maintenance



Equipment Inspection



HVAC Leak Detection



Circuit Board Repairing

\*The 8-meter image transmission distance is the test value taken when the space is without obstruction.

# AX200+

## Handheld Thermal Camera

Equipped with a high-sensitivity infrared detector with a resolution of 256×192, based on an intelligent image algorithm, the AX200+ handheld thermal camera can generate clearer and sharper thermal images. The product has been completely upgraded to give users a better working experience.



### Product Highlights

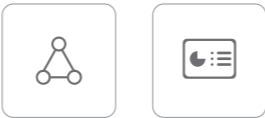
#### Image+: distinguish smaller temperature differences and more details

- Equipped with a self-developed 12μm 256×192 uncooled infrared detector.
- NETD as low as 40mK, capturing smaller temperature differences.
- Intelligent image algorithm applied, displaying clearer details of temperature measurement targets and sharper images.



#### Feature+: professional grade, full services based on thermal sensors, catering to all industrial control scenarios

- Shorter startup duration of 6s and smooth operation response.
- Support automatic switching of temperature measurement modes for efficient operations.
- Support built-in video taking to facilitate analysis and recording.



#### Performance+: rugged, easy to use, and quick to deploy

- IP54 waterproof and dustproof, and 2m drop protection.
- A battery life of 11 hours.
- Built-in 32GB memory card, expandable to 128GB.



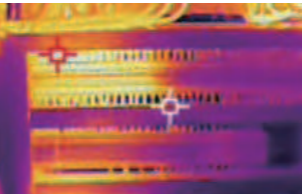
#### Software+: complete software ecosystem

- Support complete secondary analysis software for PC.

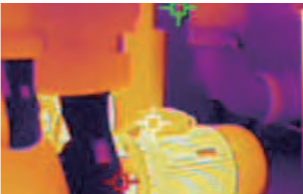
### Specifications

| Thermal Imaging                  |                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                    | 12μm uncooled infrared detector                                                                                                         |
| Infrared Resolution              | 256×192                                                                                                                                 |
| Spectral Band                    | 7.5~14μm                                                                                                                                |
| Thermal Sensitivity (NETD)       | <40mK (25°C,F1.0)                                                                                                                       |
| Frame Rate                       | 25Hz                                                                                                                                    |
| Lens Focal Length                | 3.2mm                                                                                                                                   |
| FOV                              | 56°×42°                                                                                                                                 |
| Spatial Resolution (IFOV)        | 3.75mrad                                                                                                                                |
| Focus Mode                       | Fixed focus                                                                                                                             |
| Minimum Imaging Distance         | 0.3m                                                                                                                                    |
| Measurement Range                | -20°C~+150°C, 100°C~550°C                                                                                                               |
| Measurement Accuracy             | ±2°C or ±2% of readings, whichever is greater.                                                                                          |
| Imaging Display                  |                                                                                                                                         |
| Display                          | 2.8 inch, 320×240                                                                                                                       |
| Visible Light Camera             | 2 megapixels                                                                                                                            |
| Digital Zoom                     | 1×, 2×, 4×                                                                                                                              |
| Palettes                         | 7                                                                                                                                       |
| Image Mode                       | Infrared, visible light, PIP, dual-spectrum fusion                                                                                      |
| Temperature Width Stretch        | Auto                                                                                                                                    |
| Measurement and Analysis         |                                                                                                                                         |
| Analysis Functions on the Device | Central temperature point/Highest temperature point/Lowest temperature point                                                            |
| Supporting software              | PC (Infrared Analysis Software)                                                                                                         |
| Image Storage                    |                                                                                                                                         |
| Storage Medium                   | Standard 32GB MicroSD, up to 128G                                                                                                       |
| System Functions                 |                                                                                                                                         |
| Alarm Type                       | Highest/Lowest temperature alarm in full frame; Image pop-ups, flash prompts; Auto image capture at alarm time (with temperature data). |
| Power Management                 | Auto shut-down setting                                                                                                                  |
| Others                           |                                                                                                                                         |
| Battery                          | Built-in rechargeable lithium-ion battery                                                                                               |
| Charging Mode                    | USB Type-C                                                                                                                              |
| Battery Life                     | About 11h                                                                                                                               |
| Interface                        | USB Type-C, SD card                                                                                                                     |
| Tripod Socket                    | UNC 1/4-20 interface for tripod                                                                                                         |
| Operating Temperature            | -10°C~+50°C                                                                                                                             |
| Operating Humidity               | 10%~95% (non-condensing)                                                                                                                |
| Storage Temperature              | -20°C~+60°C                                                                                                                             |
| Ingress Protection Rating        | IP54                                                                                                                                    |
| Shock and Vibration              | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                             |
| Weight and Dimensions            | About 520g, 237×75×92mm                                                                                                                 |
| Authentication                   | CE/RoHS/CMA, etc.                                                                                                                       |
| Packing List                     | Infrared camera×1, USB cable, 32GB SD card, user manual, storage bag, certificate of qualification, calibration certificate             |

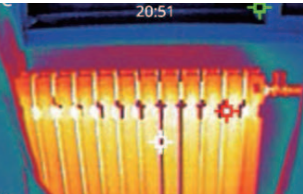
### Applications



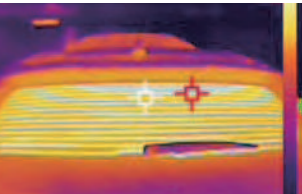
Power Maintenance



Equipment Inspection



HVAC Leak Detection



Automotive Maintenance

# AX200 SE+ Handheld Thermal Camera

Equipped with a high-sensitivity infrared detector with a resolution of 256×192, based on an intelligent image algorithm, the AX200 SE+ handheld thermal camera can generate clearer and sharper thermal images. The product has been completely upgraded to give users a better experience.



## Product Highlights

### Image+: distinguish smaller temperature differences and more details

- Equipped with a self-developed 12μm 256×192 uncooled infrared detector.
- NETD as low as 40mK, capturing smaller temperature differences.
- Intelligent image algorithm applied, displaying clearer details of temperature measurement targets and sharper images.



### Feature+: professional grade, full services based on thermal sensors, catering to all industrial control scenarios

- Shorter startup duration of 6s and smooth operation response.
- Support automatic switching of temperature measurement modes for efficient operations.
- Support built-in video taking to facilitate analysis and recording.



### Performance+: rugged, easy to use, and quick to deploy

- IP54 waterproof and dustproof, and 2m drop protection
- A battery life of 9 hours.
- Built-in 32GB memory card, expandable to 128GB



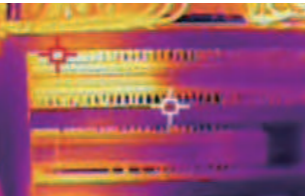
### Software+: complete software ecosystem

- Support complete secondary analysis software for PC

## Specifications

| Thermal Imaging                  |                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                    | 12μm uncooled infrared detector                                                                                                         |
| Infrared Resolution              | 256×192                                                                                                                                 |
| Spectral Band                    | 7.5~14μm                                                                                                                                |
| Thermal Sensitivity (NETD)       | <40mK (25°C,F1.0)                                                                                                                       |
| Frame Rate                       | 25Hz                                                                                                                                    |
| Lens Focal Length                | 3.2mm                                                                                                                                   |
| FOV                              | 56°×42°                                                                                                                                 |
| Spatial Resolution (IFOV)        | 3.75mrad                                                                                                                                |
| Focus Mode                       | Fixed focus                                                                                                                             |
| Minimum Imaging Distance         | 0.3m                                                                                                                                    |
| Measurement Range                | -20°C ~ +150°C, 100°C ~ +400°C                                                                                                          |
| Measurement Accuracy             | ±2°C or ±2% of readings, whichever is greater.                                                                                          |
| Imaging Display                  |                                                                                                                                         |
| Display                          | 2.8 inch, 320×240                                                                                                                       |
| Digital Zoom                     | 1×, 2×, 4×                                                                                                                              |
| Palettes                         | 4 options                                                                                                                               |
| Image Mode                       | Infrared                                                                                                                                |
| Temperature Width Stretch        | Auto                                                                                                                                    |
| Measurement and Analysis         |                                                                                                                                         |
| Analysis Functions on the Device | Central temperature point/Highest temperature point/Lowest temperature point                                                            |
| Supporting Software              | PC (Infrared Analysis Software)                                                                                                         |
| Image Storage                    |                                                                                                                                         |
| Storage Medium                   | Standard 32GB MicroSD, up to 128G                                                                                                       |
| System Functions                 |                                                                                                                                         |
| Alarm Type                       | Highest/Lowest temperature alarm in full frame; Image pop-ups, flash prompts; Auto image capture at alarm time (with temperature data). |
| Power Management                 | Auto shut-down setting                                                                                                                  |
| Others                           |                                                                                                                                         |
| Battery                          | Built-in rechargeable lithium-ion battery                                                                                               |
| Charging Mode                    | USB Type-C                                                                                                                              |
| Battery Life                     | About 9h                                                                                                                                |
| Interface                        | USB Type-C, SD card                                                                                                                     |
| Tripod Socket                    | UNC 1/4-20 interface for tripod                                                                                                         |
| Operating Temperature            | -10°C~+50°C                                                                                                                             |
| Operating Humidity               | 10%~95% (non-condensing)                                                                                                                |
| Storage Temperature              | -20°C~+60°C                                                                                                                             |
| Ingress Protection Rating        | IP54                                                                                                                                    |
| Shock and Vibration              | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                             |
| Weight and Dimensions            | About 520g, 237×75×92mm                                                                                                                 |
| Authentication                   | CE/RoHS/CMA, etc.                                                                                                                       |
| Packing List                     | Infrared camera×1, USB cable, 32GB SD card, user manual, storage bag, certificate of qualification, calibration certificate             |

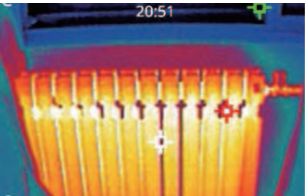
## Applications



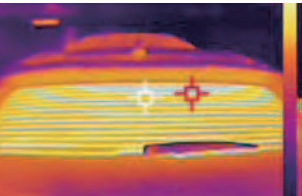
Power Maintenance



Equipment Inspection



HVAC Leak Detection



Automotive Maintenance

# AX200 Pro+ Handheld Thermal Camera

Equipped with a high-sensitivity infrared detector with a resolution of 256×192, based on an intelligent image algorithm, the AX200 Pro+ handheld thermal camera can generate clearer and sharper thermal images. The product has been completely upgraded to give users a better working experience.



## Product Highlights

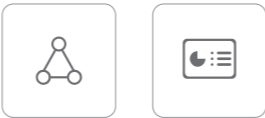
### Image+: distinguish smaller temperature differences and more details

- Equipped with a self-developed 12μm 256×192 uncooled infrared detector.
- NETD as low as 40mK, capturing smaller temperature differences.
- Intelligent image algorithm applied, displaying clearer details of temperature measurement targets and sharper images.



### Feature+: professional grade, full services based on thermal sensors, catering to all industrial control scenarios

- Shorter startup duration of 6s and smooth operation response.
- Support automatic switching of temperature measurement modes for efficient operations.
- Support built-in video taking to facilitate analysis and recording.



### Performance+: rugged, easy to use, and quick to deploy

- IP54 waterproof and dustproof, and 2m drop protection
- A battery life of 15 hours
- Built-in 32GB memory card, expandable to 128GB



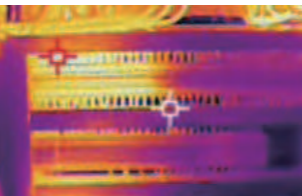
### Software+: complete software PC client and app

- Support complete secondary analysis software for PC
- Support thermal image transmission & analysis applications for mobile devices

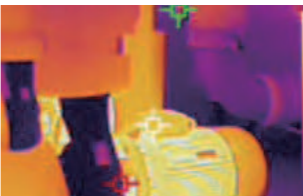
## Specifications

| Thermal Imaging                  |                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                    | 12μm uncooled infrared detector                                                                                                         |
| Infrared Resolution              | 256×192                                                                                                                                 |
| Spectral Band                    | 7.5~14μm                                                                                                                                |
| Thermal Sensitivity (NETD)       | <40mK (25°C,F1.0)                                                                                                                       |
| Frame Rate                       | 25Hz                                                                                                                                    |
| Lens Focal Length                | 3.2mm                                                                                                                                   |
| FOV                              | 56°×42°                                                                                                                                 |
| Spatial Resolution (IFOV)        | 3.75mrad                                                                                                                                |
| Focus Mode                       | Fixed focus                                                                                                                             |
| Minimum Imaging Distance         | 0.3m                                                                                                                                    |
| Measurement Range                | -20°C~+150°C, 100°C~550°C                                                                                                               |
| Measurement Accuracy             | ±2°C or ±2% of readings, whichever is greater.                                                                                          |
| Imaging Display                  |                                                                                                                                         |
| Display                          | 2.8 inch, 320×240                                                                                                                       |
| Visible Light Camera             | 2 megapixels                                                                                                                            |
| Digital Zoom                     | 1×, 2×, 4×                                                                                                                              |
| Palettes                         | 7                                                                                                                                       |
| Image Mode                       | Infrared, visible light, PIP, dual-spectrum fusion                                                                                      |
| Temperature Width Stretch        | Auto                                                                                                                                    |
| Measurement and Analysis         |                                                                                                                                         |
| Analysis Functions on the Device | Central temperature point/Highest temperature point/Lowest temperature point                                                            |
| Supporting software              | PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)                                                                       |
| Image Storage                    |                                                                                                                                         |
| Storage Medium                   | Standard 32GB MicroSD, up to 128G                                                                                                       |
| System Functions                 |                                                                                                                                         |
| Alarm Type                       | Highest/Lowest temperature alarm in full frame; Image pop-ups, flash prompts; Auto image capture at alarm time (with temperature data). |
| Communication Protocol           | USB, WiFi                                                                                                                               |
| Power Management                 | Auto shut-down setting                                                                                                                  |
| Others                           |                                                                                                                                         |
| Battery                          | Built-in rechargeable lithium-ion battery                                                                                               |
| Charging Mode                    | USB Type-C                                                                                                                              |
| Battery Life                     | About 15h                                                                                                                               |
| Interface                        | USB Type-C, SD card                                                                                                                     |
| Tripod Socket                    | UNC 1/4-20 interface for tripod                                                                                                         |
| Operating Temperature            | -10°C~+50°C                                                                                                                             |
| Operating Humidity               | 10%~95% (non-condensing)                                                                                                                |
| Storage Temperature              | -20°C~+60°C                                                                                                                             |
| Ingress Protection Rating        | IP54                                                                                                                                    |
| Shock and Vibration              | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                             |
| Weight and Dimensions            | About 520g, 237×75×92mm                                                                                                                 |
| Authentication                   | CE/RoHS/CMA, etc.                                                                                                                       |
| Packing List                     | Infrared camera×1, USB cable, 32GB SD card, user manual, storage bag, certificate of qualification, calibration certificate             |

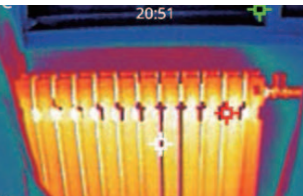
## Applications



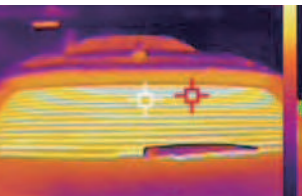
Power Maintenance



Equipment Inspection



HVAC Leak Detection



Automotive Maintenance

# AM200A

## Handheld Thermal Camera

AM200A is equipped with a self-developed 12μm high thermal sensitivity 256×192 infrared thermal imaging detector. Based on intelligent and precise temperature measurement algorithms and HD image algorithms, it strives to be a professional infrared thermal imaging tool with HD images, a large-screen display, and accurate temperature measurement for applications such as electrical maintenance and circuit design.



### Product Highlights

#### Powerful Detector, Clear Imaging

- Equipped with a 256×192 self-developed uncooled infrared detector.
- 40mK thermal sensitivity, capable of distinguishing the minimum temperature difference of 0.04°C, capturing small hot and cold spots.
- -20°C~+550°C wide measurement range for monitoring more temperature targets.



#### Fully-Functional Software

- Manually adjusting the temperature range to meet the needs of multiple scenarios and uses.
- Support multiple image modes + multiple palettes to meet the needs of temperature measurement under different requirements.
- The PC software supports real-time image analysis.



#### Hardcore Configuration

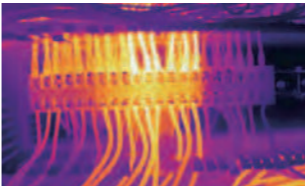
- Equipped with a 3.5-inch touch screen, supporting center point, hot and cold spot tracking and temperature display.
- IP54, 2m drop protection
- Standard configuration of 2 quick-removal batteries, with a battery life of up to 8h.



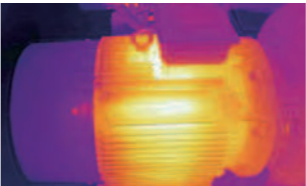
### Specifications

| Thermal Imaging                  |                                                                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                    | 12μm uncooled infrared detector                                                                                                                                      |
| Infrared Resolution              | 256×192                                                                                                                                                              |
| Spectral Band                    | 7.5~14μm                                                                                                                                                             |
| Thermal Sensitivity (NETD)       | <40mK (25°C,F1.0)                                                                                                                                                    |
| Frame Rate                       | 25Hz                                                                                                                                                                 |
| Lens Focal Length                | 3.2mm                                                                                                                                                                |
| FOV                              | 56°×42°                                                                                                                                                              |
| Spatial Resolution (IFOV)        | 3.75mrad                                                                                                                                                             |
| Focus Mode                       | Fixed focus                                                                                                                                                          |
| Minimum Imaging Distance         | 0.3m                                                                                                                                                                 |
| Measurement Range                | -20~+150°C, 100~550°C                                                                                                                                                |
| Measurement Accuracy             | ±2°C or ±2% of readings, whichever is greater.                                                                                                                       |
| Image Display                    |                                                                                                                                                                      |
| Display                          | 3.5-inch touch screen, 640×480 resolution                                                                                                                            |
| Visible Light Camera             | 2 megapixels                                                                                                                                                         |
| Digital Zoom                     | 1×, 2×, 4×                                                                                                                                                           |
| Palettes                         | 7                                                                                                                                                                    |
| Image Mode                       | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                                   |
| Temperature Width Stretch        | Automatic/Manual                                                                                                                                                     |
| Measurement and Analysis         |                                                                                                                                                                      |
| Analysis Functions on the Device | Custom points/lines/areas; up to 10 points, 10 areas, and 10 lines;Center point/Hot and cold spot tracking and temperature display                                   |
| Supporting Software              | PC (Infrared Analysis Software)                                                                                                                                      |
| Image Storage                    |                                                                                                                                                                      |
| Storage Medium                   | Standard 32GB MicroSD, up to 128G                                                                                                                                    |
| Text Notes                       | Support                                                                                                                                                              |
| Voice Annotation                 | Support                                                                                                                                                              |
| Image Naming                     | Auto/manual naming, naming by scanning QR code                                                                                                                       |
| System Functions                 |                                                                                                                                                                      |
| Communication Protocol           | Wi-Fi, USB                                                                                                                                                           |
| Laser Pointer                    | Support                                                                                                                                                              |
| Video Transmission               | Support UVC video transmission                                                                                                                                       |
| Others                           |                                                                                                                                                                      |
| Battery                          | Rechargeable and detachable lithium-ion battery                                                                                                                      |
| Charging Mode                    | USB Type-C or desktop charger                                                                                                                                        |
| Battery Life                     | About 8h (about 4h for a single battery)                                                                                                                             |
| Interface                        | USB Type-C, SD card                                                                                                                                                  |
| Tripod Socket                    | UNC 1/4-20 interface for tripod                                                                                                                                      |
| Operating Temperature            | -10°C~+50°C                                                                                                                                                          |
| Operating Humidity               | 10%~95% (non-condensing)                                                                                                                                             |
| Storage Temperature              | -20°C~+60°C                                                                                                                                                          |
| Ingress Protection Rating        | IP54                                                                                                                                                                 |
| Shock and Vibration              | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                          |
| Weight and Dimensions            | About 635g, 258.4×105.1×102.3mm                                                                                                                                      |
| Authentication                   | CE/RoHS/CMA, etc.                                                                                                                                                    |
| Packing List                     | Thermal camera ×1, 5V 2A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger, calibration certificate,package list, portable cloth bag |

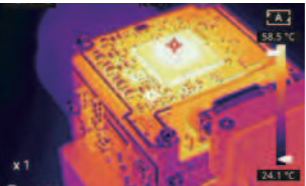
### Applications



Power Maintenance



Equipment Maintenance



Circuit Design



HVAC Maintenance

# AM200F

## Handheld Thermal Camera

The AM200F is equipped with a self-developed 12μm high thermal sensitivity 256×192 infrared thermal imaging detector. Based on intelligent and precise temperature measurement algorithms, HD image algorithms, and cloud services, it strives to be a professional infrared thermal imaging tool with HD images, a large-screen display, and accurate temperature measurement for applications such as electrical maintenance and circuit design.



### Product Highlights

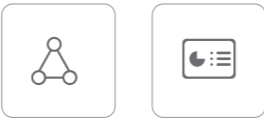
#### Powerful Detector, Clear Imaging

- Equipped with a 256×192 self-developed uncooled infrared detector.
- 40mK thermal sensitivity, capable of distinguishing the minimum temperature difference of 0.04°C, capturing small hot and cold spots.
- -20°C~+550°C wide measurement range for monitoring more temperature targets.



#### Fully-Functional Software

- Manually adjusting the temperature range to meet the needs of multiple scenarios and uses.
- Support multiple image modes + multiple palettes to meet the needs of temperature measurement under different requirements.
- The PC software supports real-time image analysis.



#### Hardcore Configuration

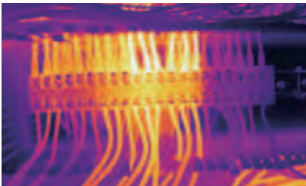
- Equipped with a 3.5-inch touch screen, supporting center point, hot and cold spot tracking and temperature display.
- IP54, 2m drop protection
- Standard configuration of 2 quick-removal batteries, with a battery life of up to 8h.



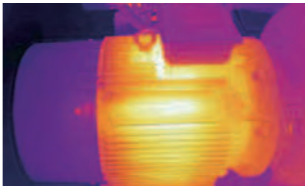
### Specifications

| Thermal Imaging                  |                                                                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                    | 12μm uncooled infrared detector                                                                                                                                      |
| Infrared Resolution              | 256×192                                                                                                                                                              |
| Spectral Band                    | 7.5~14μm                                                                                                                                                             |
| Thermal Sensitivity (NETD)       | <40mK (25°C,F1.0)                                                                                                                                                    |
| Frame Rate                       | 25Hz                                                                                                                                                                 |
| Lens Focal Length                | 7mm                                                                                                                                                                  |
| FOV                              | 24.8°×18.7°                                                                                                                                                          |
| Spatial Resolution (IFOV)        | 1.71mrad                                                                                                                                                             |
| Focus Mode                       | Manual focusing                                                                                                                                                      |
| Minimum Imaging Distance         | 0.2m                                                                                                                                                                 |
| Measurement Range                | -20~+150°C, 100~550°C                                                                                                                                                |
| Measurement Accuracy             | ±2°C or ±2% of readings, whichever is greater.                                                                                                                       |
| Image Display                    |                                                                                                                                                                      |
| Display                          | 3.5-inch touch screen, 640×480 resolution                                                                                                                            |
| Visible Light Camera             | 2 megapixels                                                                                                                                                         |
| Digital Zoom                     | 1×, 2×, 4×                                                                                                                                                           |
| Palettes                         | 10                                                                                                                                                                   |
| Image Mode                       | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                                   |
| Temperature Width Stretch        | Automatic/Manual                                                                                                                                                     |
| Measurement and Analysis         |                                                                                                                                                                      |
| Analysis Functions on the Device | Custom points/lines/areas; up to 10 points, 10 areas, and 10 lines;Center point/Hot and cold spot tracking and temperature display                                   |
| Supporting Software              | PC (Infrared Analysis Software)                                                                                                                                      |
| Image Storage                    |                                                                                                                                                                      |
| Storage Medium                   | Standard 32GB MicroSD, up to 128G                                                                                                                                    |
| Text Notes                       | Support                                                                                                                                                              |
| Voice Annotation                 | Support                                                                                                                                                              |
| Image Naming                     | Auto/manual naming, naming by scanning QR code                                                                                                                       |
| System Functions                 |                                                                                                                                                                      |
| Communication Protocol           | Wi-Fi, USB                                                                                                                                                           |
| Laser Pointer                    | Support                                                                                                                                                              |
| Video Transmission               | Support UVC video transmission                                                                                                                                       |
| Others                           |                                                                                                                                                                      |
| Battery                          | Rechargeable and detachable lithium-ion battery                                                                                                                      |
| Charging Mode                    | USB Type-C or desktop charger                                                                                                                                        |
| Battery Life                     | About 8h (about 4h for a single battery)                                                                                                                             |
| Interface                        | USB Type-C, SD card                                                                                                                                                  |
| Tripod Socket                    | UNC 1/4-20 interface for tripod                                                                                                                                      |
| Operating Temperature            | -10°C~+50°C                                                                                                                                                          |
| Operating Humidity               | 10%~95% (non-condensing)                                                                                                                                             |
| Storage Temperature              | -20°C~+60°C                                                                                                                                                          |
| Ingress Protection Rating        | IP54                                                                                                                                                                 |
| Shock and Vibration              | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                          |
| Weight and Dimensions            | About 660g, 258.4×105.1×102.3mm                                                                                                                                      |
| Authentication                   | CE/RoHS/CMA, etc.                                                                                                                                                    |
| Packing List                     | Thermal camera ×1, 5V 2A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger, calibration certificate,package list, portable cloth bag |

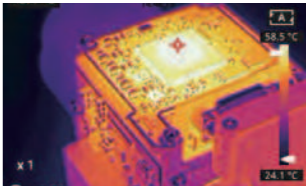
### Applications



Power Maintenance



Equipment Maintenance



Circuit Design



HVAC Maintenance

# AM305

## Handheld Thermal Camera

AM305 is a professional handheld thermal camera, featuring high resolution and manual focus for temperature measurement. It is equipped with a self-developed 384×288 infrared detector, providing a high sensitivity of 35mK. It finds extensive applications in fields such as electric power, electrical automation, building inspection, and commercial HVAC.



### Product Highlights

#### Clear Thermal Images, Precise Temperature Measurement

- 12μm high-performance 384×288 uncooled infrared detector.
- NETD as low as 35mK, capable of distinguishing temperature differences of 0.035°C.
- USB plug-and-play analysis, real-time full-frame transmission, and analysis of temperature information.



#### Professional Functions, Multi-dimensional Design

- Support full-frame high/low-temperature alarms and scheduled image capture, and record temperature rise changes.
- Capable of automatically tracking the highest temperature, the lowest temperature, and the central-point temperature within the measurement area.
- Support multiple image modes+10 palette settings to meet temperature measurement under different requirements.
- Support professional thermal imaging analysis software on the app, PC, and cloud platform.



#### Hard-core Configuration, High-end Experience

- IP54 and 2m drop protection, solid and durable.
- 3.5-inch touch screen, 640×480 resolution
- Built-in laser pointer module for quick target locating.



### Specifications

| Thermal Imaging                  |                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                    | 12μm uncooled infrared detector                                                                                                                               |
| Infrared Resolution              | 384×288                                                                                                                                                       |
| Spectral Band                    | 7.5-14μm                                                                                                                                                      |
| Thermal Sensitivity (NETD)       | <35mK (25°C,F1.0)                                                                                                                                             |
| Frame Rate                       | 30Hz                                                                                                                                                          |
| Lens Focal Length                | 6.2mm                                                                                                                                                         |
| FOV                              | 43.7°×31.9°                                                                                                                                                   |
| Spatial Resolution (IFOV)        | 1.98mrad                                                                                                                                                      |
| Focus Mode                       | Manual focusing                                                                                                                                               |
| Measurement Range                | -20~+150°C, 100~550°C                                                                                                                                         |
| Measurement Accuracy             | ±2°C or ±2% of readings, whichever is greater.                                                                                                                |
| Image Display                    |                                                                                                                                                               |
| Display                          | 3.5-inch touch screen, 640×480 resolution                                                                                                                     |
| Visible Light Camera             | 5 megapixels                                                                                                                                                  |
| Digital Zoom                     | 1×, 2×, 4×, 8×                                                                                                                                                |
| Palettes                         | 10                                                                                                                                                            |
| Image Mode                       | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                            |
| Temperature Width Stretch        | Automatic/Manual                                                                                                                                              |
| Measurement and Analysis         |                                                                                                                                                               |
| Analysis Functions on the Device | Custom points/lines/areas; up to 10 points, 10 areas, and 10 lines;Center point/Hot and cold spot tracking and temperature display                            |
| Supporting Software              | PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)                                                                                             |
| Image Storage                    |                                                                                                                                                               |
| Storage Medium                   | Standard 32GB MicroSD, up to 512G                                                                                                                             |
| Text Notes                       | Support                                                                                                                                                       |
| Voice Annotation                 | Support                                                                                                                                                       |
| Image Naming                     | Auto/manual naming, naming by scanning QR code                                                                                                                |
| System Functions                 |                                                                                                                                                               |
| Laser Pointer                    | Support                                                                                                                                                       |
| Video Transmission               | Support UVC video transmission                                                                                                                                |
| Communication Protocol           | Wi-Fi, USB                                                                                                                                                    |
| Others                           |                                                                                                                                                               |
| Battery                          | Rechargeable and detachable lithium-ion battery                                                                                                               |
| Charging Mode                    | USB Type-C or desktop charger                                                                                                                                 |
| Battery Life                     | About 6h (about 3h for a single battery)                                                                                                                      |
| Interface                        | USB Type-C, SD card                                                                                                                                           |
| Tripod Socket                    | UNC 1/4-20 interface for tripod                                                                                                                               |
| Operating Temperature            | -10°C~+50°C                                                                                                                                                   |
| Operating Humidity               | 10%~95% (non-condensing)                                                                                                                                      |
| Storage Temperature              | -20°C~+60°C                                                                                                                                                   |
| Ingress Protection Rating        | IP54                                                                                                                                                          |
| Shock and Vibration              | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                   |
| Weight and Dimensions            | About 670g, 258.4×105.1×102.3mm                                                                                                                               |
| Authentication                   | CE/RoHS/CMA, etc.                                                                                                                                             |
| Packing List                     | Thermal camera ×1, 5V 3A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger, calibration certificate, package list, safety box |

### Applications



Product R&D



Equipment Maintenance



Electric Routine Inspection



Electrical Maintenance

# AM320

## Handheld Thermal Camera

AM320 is equipped with a 12μm infrared detector, which brings 384×288 high-resolution infrared thermal images and a high sensitivity of 35mK to easily capture small hot spots.

With a temperature measurement range extendable to 650°C, the device is suitable for electric routine inspection, electronic circuit design, HVAC, industrial manufacturing, petrochemical industry, photovoltaic testing, and many other fields.



### Product Highlights

#### High-definition Thermal Images, Capturing Subtle Hot Spots

- Equipped with a self-developed 384×288 high-pixel 12μm advanced-technology detector.
- Capable of distinguishing 0.035°C temperature differences, easily capturing subtle hot spots.



#### Smart Upgrade for You to Handle Complexity with Simplicity

- Support intelligent shooting, user customization, import and distribution of inspection task packages, simplifying the task process and improving routine inspection efficiency.
- Support temperature trend analysis, helping users observe temperature distribution and changes in real time.
- Support isotherm function to highlight the temperature segments or areas that need attention.
- Support analysis software on the PC client and secondary analysis of video files.



#### Upgraded Performance for More Application Scenarios

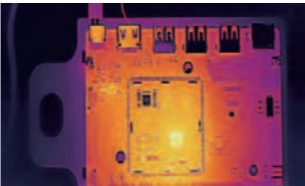
- -20°C~+650°C wider temperature range, suitable for more industrial temperature measurement scenarios.
- IP54 and 2m drop protection, solid and durable.
- Standard 32GB MicroSD card, expandable to 512GB, supporting temperature video recording.



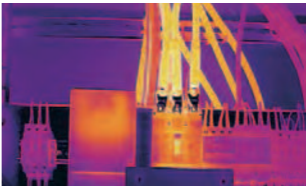
### Specifications

| Thermal Imaging                                         |                                                                                                                                                              |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                                           | 12μm uncooled infrared detector                                                                                                                              |
| Infrared Resolution                                     | 384×288                                                                                                                                                      |
| Spectral Band                                           | 7.5-14μm                                                                                                                                                     |
| Thermal Sensitivity (NETD)                              | <35mK (25°C,F1.0)                                                                                                                                            |
| Frame Rate                                              | 30Hz                                                                                                                                                         |
| Lens Focal Length                                       | 9.1mm                                                                                                                                                        |
| FOV                                                     | 27°×20°                                                                                                                                                      |
| Spatial Resolution (IFOV)                               | 1.31mrad                                                                                                                                                     |
| Focus Mode                                              | Manual focus                                                                                                                                                 |
| Measurement Range                                       | -20°C~+150°C; 100°C~650°C                                                                                                                                    |
| Measurement Accuracy                                    | ±2°C or ±2% of readings, whichever is greater.                                                                                                               |
| Image Display                                           |                                                                                                                                                              |
| Display                                                 | 3.5-inch touch screen, 640×480 resolution                                                                                                                    |
| Visible Light Camera                                    | 5 megapixels                                                                                                                                                 |
| Digital Zoom                                            | 1×, 2×, 4×, 8×                                                                                                                                               |
| Palettes                                                | 10                                                                                                                                                           |
| Image Mode                                              | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                           |
| Temperature Width Stretch                               | Automatic/Manual                                                                                                                                             |
| Measurement and Analysis                                |                                                                                                                                                              |
| Analysis Functions on the Device                        | Custom points/lines/areas; up to 10 points, 10 areas, and 10 lines;Center point/Hot and cold spot tracking and temperature display                           |
| Supporting Software                                     | PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)                                                                                            |
| Image Storage                                           |                                                                                                                                                              |
| Storage Medium                                          | Standard 32GB MicroSD, up to 512G                                                                                                                            |
| Text Notes                                              | Support                                                                                                                                                      |
| Voice Notes                                             | Support                                                                                                                                                      |
| Video Recording                                         |                                                                                                                                                              |
| Radiation Infrared Video Recording                      | Support                                                                                                                                                      |
| Non-radiation Infrared or Visible Light Video Recording | Support                                                                                                                                                      |
| System Functions                                        |                                                                                                                                                              |
| Intelligent Routine Inspection                          | Support                                                                                                                                                      |
| Laser Pointer                                           | Support                                                                                                                                                      |
| Video Transmission                                      | Support UVC video transmission                                                                                                                               |
| Communication Protocol                                  | Wi-Fi, USB                                                                                                                                                   |
| Others                                                  |                                                                                                                                                              |
| Battery                                                 | Rechargeable and detachable lithium-ion battery                                                                                                              |
| Charging Mode                                           | USB Type-C or desktop charger                                                                                                                                |
| Battery Life                                            | About 6h (about 3h for a single battery)                                                                                                                     |
| External Interface                                      | USB Type-C, SD card                                                                                                                                          |
| Tripod Socket                                           | UNC 1/4-20 interface for tripod                                                                                                                              |
| Operating Temperature                                   | -10°C~+50°C                                                                                                                                                  |
| Operating Humidity                                      | 10%~95% (non-condensing)                                                                                                                                     |
| Storage Temperature                                     | -20°C~+60°C                                                                                                                                                  |
| IP Grade                                                | IP54                                                                                                                                                         |
| Shock and Vibration                                     | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                  |
| Weight and Dimensions                                   | About 683.5g, 258.4×105.1×102.3mm                                                                                                                            |
| Authentication                                          | CE/RoHS/CMA, etc.                                                                                                                                            |
| Packing List                                            | Thermal camera ×1, 5V 3A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger,calibration certificate, package list, safety box |

### Applications



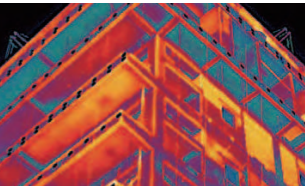
Circuit Design



Electric Routine Inspection



Industrial Manufacturing



Construction Inspection

# AM620

## Handheld Thermal Camera

AM620 is equipped with a 12μm infrared detector, which brings 640×512 high-resolution infrared thermal images and a high sensitivity of 35mK to easily capture small hot spots.

With a temperature measurement range extendable to 650°C, the device is suitable for electric routine inspection, electronic circuit design, HVAC, industrial manufacturing, petrochemical industry, photovoltaic testing, and many other fields.



### Product Highlights

#### High-definition Thermal Images, Capturing Subtle Hot Spots

- Equipped with a self-developed 640×512 high-pixel 12μm advanced-technology detector.
- Capable of distinguishing 0.035°C temperature difference, IFOV as low as 0.63mrad, easily capturing subtle hot spots.



#### Smart Upgrade for You to Handle Complexity with Simplicity

- Support intelligent shooting, user customization, import and distribution of inspection task packages, simplifying the task process and improving routine inspection efficiency.
- Support temperature trend analysis, helping users observe temperature distribution and changes in real time.
- Support isotherm function to highlight the temperature segments or areas that need attention.
- Support analysis software on the PC client and secondary analysis of video files.



#### Upgraded Performance for More Application Scenarios

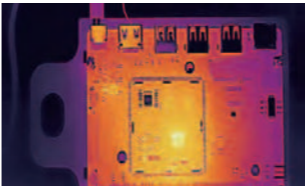
- -20°C~+650°C wider temperature range, suitable for more industrial temperature measurement scenarios.
- IP54 and 2m drop protection, solid and durable.
- Standard 32GB MicroSD card, expandable to 512GB, supporting temperature video recording.



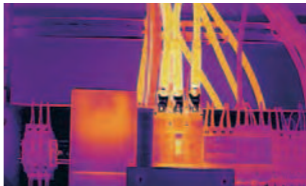
### Specifications

| Thermal Imaging                                         |                                                                                                                                                             |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                                           | 12μm uncooled infrared detector                                                                                                                             |
| Infrared Resolution                                     | 640x512                                                                                                                                                     |
| Spectral Band                                           | 7.5-14μm                                                                                                                                                    |
| Thermal Sensitivity (NETD)                              | <35mK (25°C,F1.0)                                                                                                                                           |
| Frame Rate                                              | 30Hz                                                                                                                                                        |
| Focal Length                                            | 19mm                                                                                                                                                        |
| FOV                                                     | 23°× 18°                                                                                                                                                    |
| Spatial Resolution (IFOV)                               | 0.63mrad                                                                                                                                                    |
| Focus Mode                                              | Manual focus                                                                                                                                                |
| Measurement Range                                       | -20°C~+150°C; 100°C~650°C                                                                                                                                   |
| Measurement Accuracy                                    | ±2°C or ±2% of readings, whichever is greater.                                                                                                              |
| Image Display                                           |                                                                                                                                                             |
| Display                                                 | 3.5-inch touch screen, 640×480 resolution                                                                                                                   |
| Visible Light Camera                                    | 5 megapixels                                                                                                                                                |
| Digital Zoom                                            | 1×, 2×, 4×, 8×                                                                                                                                              |
| Palettes                                                | 10                                                                                                                                                          |
| Image Mode                                              | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                          |
| Temperature Width Stretch                               | Automatic/Manual                                                                                                                                            |
| Measurement and Analysis                                |                                                                                                                                                             |
| Analysis Functions on the Device                        | Custom points/lines/areas; up to 10 points, 10 areas, and 10 lines;Center point/Hot and cold spot tracking and temperature display                          |
| Supporting Software                                     | PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)                                                                                           |
| Image Storage                                           |                                                                                                                                                             |
| Storage Medium                                          | Standard 32GB MicroSD, up to 512G                                                                                                                           |
| Text Notes                                              | Support                                                                                                                                                     |
| Voice Notes                                             | Support                                                                                                                                                     |
| Video Recording                                         |                                                                                                                                                             |
| Radiation Infrared Video Recording                      | Support                                                                                                                                                     |
| Non-radiation Infrared or Visible Light Video Recording | Support                                                                                                                                                     |
| System Functions                                        |                                                                                                                                                             |
| Intelligent Routine Inspection                          | Support                                                                                                                                                     |
| Laser Pointer                                           | Support                                                                                                                                                     |
| Video Transmission                                      | Support UVC video transmission                                                                                                                              |
| Communication Protocol                                  | Wi-Fi, USB                                                                                                                                                  |
| Others                                                  |                                                                                                                                                             |
| Battery                                                 | Rechargeable and detachable lithium-ion battery                                                                                                             |
| Charging Mode                                           | USB Type-C or desktop charger                                                                                                                               |
| Battery Life                                            | About 6h (about 3h for a single battery)                                                                                                                    |
| External Interface                                      | USB Type-C, SD card                                                                                                                                         |
| Tripod Socket                                           | UNC 1/4-20 interface for tripod                                                                                                                             |
| Operating Temperature                                   | -10°C~+50°C                                                                                                                                                 |
| Operating Humidity                                      | 10%~95% (non-condensing)                                                                                                                                    |
| Storage Temperature                                     | -20°C~+60°C                                                                                                                                                 |
| IP Grade                                                | IP54                                                                                                                                                        |
| Shock and Vibration                                     | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                 |
| Weight and Dimensions                                   | About 680g, 258.4×105.1×102.3mm                                                                                                                             |
| Authentication                                          | CE/RoHS/CMA, etc.                                                                                                                                           |
| Packing List                                            | Thermal camera ×1, 5V 3A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger,calibration certificate,package list, safety box |

### Applications



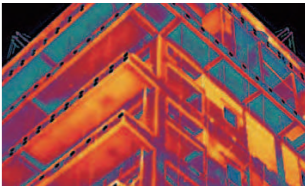
Circuit Design



Electric Routine Inspection



Industrial Manufacturing



Construction Inspection

# AM600G

## Professional Handheld Thermal Camera

AM600G is a professional handheld thermal camera, featuring high resolution and manual focus for temperature measurement. It is equipped with a self-developed 640×512 infrared detector, providing a high sensitivity of 35mK.

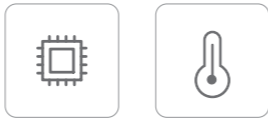
It finds extensive applications in fields such as electric power, electrical automation, building inspection, and commercial HVAC.



### Product Highlights

#### Clear Thermal Images, Precise Temperature Measurement

- 12μm high-performance 640×512 uncooled infrared detector
- NETD as low as 35mK, capable of distinguishing temperature differences of 0.035°C.
- USB plug-and-play analysis, real-time full-frame transmission, and analysis of temperature information.



#### Professional Functions, Multi-dimensional Design

- Support full-frame high/low-temperature alarms and scheduled image capture, and record temperature rise changes.
- Capable of automatically tracking the highest temperature, the lowest temperature, and the central-point temperature within the measurement area.
- Support multiple image modes+10 palette settings to meet temperature measurement under different requirements.
- Support professional thermal imaging analysis software on the app, PC.



#### Hard-core Configuration, High-end Experience

- IP54 and 2m drop protection, solid and durable.
- 3.5-inch touch screen, 640×480 resolution
- Built-in laser pointer module for quick target locating.



### Specifications

#### Thermal Imaging

|                            |                                                |
|----------------------------|------------------------------------------------|
| Detector Type              | 12μm uncooled infrared detector                |
| Infrared Resolution        | 640×512                                        |
| Spectral Band              | 7.5-14μm                                       |
| Thermal Sensitivity (NETD) | <35mK (25°C,F1.0)                              |
| Frame Rate                 | 30Hz                                           |
| Lens Focal Length          | 9.1mm                                          |
| FOV                        | 48°×38°                                        |
| Spatial Resolution (IFOV)  | 1.31mrad                                       |
| Focus Mode                 | Manual focusing                                |
| Measurement Range          | -20°C~+150°C; 100°C~550°C                      |
| Measurement Accuracy       | ±2°C or ±2% of readings, whichever is greater. |

#### Image Display

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Display                   | 3.5-inch touch screen, 640×480 resolution          |
| Visible Light Camera      | 5 megapixels                                       |
| Digital Zoom              | 1×, 2×, 4×, 8×                                     |
| Palettes                  | 10                                                 |
| Image Mode                | Infrared, visible light, PIP, dual-spectrum fusion |
| Temperature Width Stretch | Automatic/Manual                                   |

#### Measurement and Analysis

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Analysis Functions on the Device | Custom points/lines/areas; up to 10 points, 10 areas, and 10 lines;Center point/Hot and cold spot tracking and temperature display |
| Supporting Software              | PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)                                                                  |

#### Image Storage

|                  |                                                |
|------------------|------------------------------------------------|
| Storage Medium   | Standard 32GB MicroSD, up to 512G              |
| Text Notes       | Support                                        |
| Voice Annotation | Support                                        |
| Image Naming     | Auto/manual naming, naming by scanning QR code |

#### System Functions

|                        |                                |
|------------------------|--------------------------------|
| Laser Pointer          | Support                        |
| Video Transmission     | Support UVC video transmission |
| Communication Protocol | Wi-Fi, USB                     |

#### Others

|                           |                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery                   | Rechargeable and detachable lithium-ion battery                                                                                                              |
| Charging Mode             | USB Type-C or desktop charger                                                                                                                                |
| Battery Life              | About 6h (about 3h for a single battery)                                                                                                                     |
| Interface                 | USB Type-C, SD card                                                                                                                                          |
| Tripod Socket             | UNC 1/4-20 interface for tripod                                                                                                                              |
| Operating Temperature     | -10°C~+50°C                                                                                                                                                  |
| Operating Humidity        | 10%~95% (non-condensing)                                                                                                                                     |
| Storage Temperature       | -20°C~+60°C                                                                                                                                                  |
| Ingress Protection Rating | IP54                                                                                                                                                         |
| Shock and Vibration       | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                  |
| Weight and Dimensions     | About 670g, 258.4×105.1×102.3mm                                                                                                                              |
| Authentication            | CE/RoHS/CMA, etc.                                                                                                                                            |
| Packing List              | Thermal camera ×1, 5V 3A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger,calibration certificate, package list, safety box |

### Applications



Product R&D



Equipment Maintenance



Electric Routine Inspection



Electrical Maintenance

# AT400/630 Series

## Expert Thermal Camera

Equipped with a new-generation detector with a resolution of 480×360/640×512 and a NETD as low as 35mK, the new AT400/630 series can capture more subtle hotspots, and display sharper and cleaner thermal images. The device has rich and powerful features such as Android OS, trend analysis, area measurement. It is a new strong tool for expert-level full-scene analysis.



### Product Highlights

#### Clear Thermal Images, Precise Temperature Measurement

- Equipped with a 12μm uncooled infrared detector, with a resolution of 640×512/480×360, supporting super resolution.
- NETD as low as 35mK, and measurement accuracy of ±2°C or ±2% of reading (whichever is greater).



#### Various Lenses and Fast Focusing

- Standard 25° lens, with optional wide-angle, long-focus, ultra-long-focus, and macro lenses, flexible for diverse scenarios.



#### Functional Upgrade to Improve Efficiency

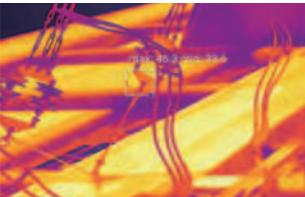
- Android operating system, more convenient to operate.
- Support intelligent image stabilization, making temperature measurement images more stable.
- Support laser rangefinding and area measurement.



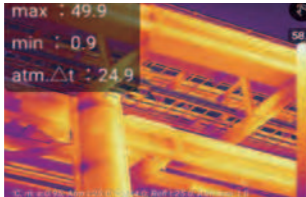
#### Intelligent Analysis, Efficient Temperature Measurement

- Support up to 20 points/lines/areas to analyze more temperature details in the screen.
- Support customized isotherms to highlight temperature segments or areas that need more attention.
- Support intelligent routine inspection, enabling import and editing of general task packages, etc.

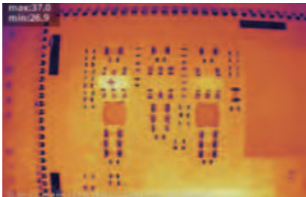
### Applications



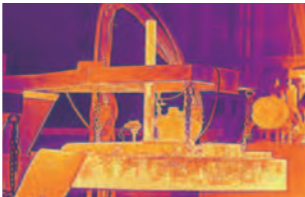
Electric Routine Inspection



Chemical Operation and Maintenance



Electronic and Electrical R&D



High Temperature Material Monitoring

| Specifications                                        | AT400                                                                                                                                                                                                                                                                                                                                                     | AT630                                                                                                                                                                                                    |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thermal Imaging                                       |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Detector Type                                         | 12μm uncooled infrared detector                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Infrared Resolution                                   | 480×360                                                                                                                                                                                                                                                                                                                                                   | 640×512                                                                                                                                                                                                  |
| Super Resolution                                      | 960×720                                                                                                                                                                                                                                                                                                                                                   | 1280×1024                                                                                                                                                                                                |
| Spectral Band                                         | 7.5-14μm                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                          |
| Thermal Sensitivity (NETD)                            | <35mK (25°C,F1.0)                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |
| Frame Rate                                            | 25Hz                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                          |
| Focal Length                                          | Standard lens: 17.7mm; super telephoto lens: 60.9mm; telephoto lens: 31.5mm; wide-angle lens: 9.5mm; macro lens (0.2×): 13mm; super macro lens (0.4×): 14.8mm.                                                                                                                                                                                            |                                                                                                                                                                                                          |
| FOV                                                   | Standard lens: 25°×20°; super telephoto lens: 7°×5.6°; telephoto lens: 14°×11.2°; wide-angle lens: 45°×36°.                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |
| Spatial Resolution (IFOV)                             | Standard lens: 0.92mrad; super telephoto lens: 0.27mrad; telephoto lens: 0.52mrad; wide-angle lens: 1.71mrad; Macro lens: One pixel corresponds to 60μm; super macro lens: One pixel corresponds to 30μm.                                                                                                                                                 | Standard lens: 0.68mrad; super telephoto lens: 0.2mrad; telephoto lens: 0.38mrad; wide-angle lens: 1.26mrad; Macro lens: One pixel corresponds to 60μm; super macro lens: One pixel corresponds to 30μm. |
| Focus Mode                                            | Manual focus, one-button center focus, automatic center focus, single-touch automatic focus, laser-assisted focus, electric micro focus                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Minimum Imaging Distance                              | Standard lens: 0.4m; super telephoto lens: 4m; telephoto lens: 3m; wide-angle lens: 0.2m; macro lens: 39mm; super macro lens: 19mm                                                                                                                                                                                                                        |                                                                                                                                                                                                          |
| Measurement Range                                     | -20°C~+150°C, 100°C~650°C; optional: 400°C~1500°C                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |
| Measurement Accuracy                                  | ±2°C or ±2% of readings, whichever is greater.                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                          |
| Image Display                                         |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Display                                               | 5-inch OLED touch screen, resolution 1280×720                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                          |
| Visible Light Camera                                  | 13 megapixels                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                          |
| Digital Zoom                                          | 1× ~ 10×                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                          |
| Palettes                                              | 19 options                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                          |
| Image Mode                                            | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                          |
| Temperature Width Stretch                             | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Measurement and Analysis                              |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Analysis Functions on the Device                      | Support up to 15 movable points, lines, frames, circles and polygons,and up to 5 preset modes                                                                                                                                                                                                                                                             | Support up to 20 movable points, lines, frames, circles and polygons,and up to 5 preset modes                                                                                                            |
| Laser Rangefinding                                    | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Area Measurement                                      | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Hygrothermograph                                      | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Positioning                                           | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Temperature Difference Analysis                       | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Trend Analysis                                        | Supports temperature trend recording and analysis.                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                          |
| Image Freezing                                        | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Analysis Report                                       | PDF format. Support editing and template importing on the PC client.                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                          |
| Supporting Software                                   | PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |
| Image Storage                                         |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Storage Medium                                        | Standard 64GB Micro SD, Support SD, SDHC, SDXC,up to 2TB                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                          |
| Text Notes                                            | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Voice Notes                                           | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Video Functions                                       |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Radiate Infrared Video Recording                      | Support compressed full radiation video recording (.irv), up to 25Hz video recording.                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                          |
| Non-radiate Infrared or Visible Light Video Recording | Standard MP4 video recording                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                          |
| Radiate Infrared Video Stream Transmission            | Analysis at about 25Hz on PC                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                          |
| Non-radiate Infrared Video Stream Transmission        | RTSP H.264                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                          |
| Video Resolution                                      | 1920x1080                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                          |
| System Functions                                      |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Intelligent Image Stabilization                       | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Intelligent Panoramic Stitching                       | Support panoramic stitching on the PC client, and one-click synthesis.                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                          |
| Intelligent Routine Inspection                        | Supported. General task package import and editing, standard and automatic naming of images                                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |
| Routine Inspection Record                             | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Self-inspection                                       | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Dual-Spectrum Video Recording                         | Simultaneous infrared video and visible light video recording, in MP7 format                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                          |
| Communication Protocol                                | Wi-Fi, Bluetooth, USB,DP, Type-C to HDMI                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                          |
| Voice Control                                         | Voice assistant, quick command recognition                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                          |
| Flashlight                                            | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Others                                                |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Microphone/Speaker                                    | Support                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Battery                                               | 10,000mAh lithium-ion battery, field-replaceable, support fast charging                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |
| Charging Mode                                         | USB Type-C or desktop charger                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                          |
| Battery Life                                          | Continuous operating time ≥ 6 hours (depending on the actual environment and service conditions)                                                                                                                                                                                                                                                          |                                                                                                                                                                                                          |
| External Interface                                    | USB3.0 Type-C, SD card, SIM card, Mini HDMI                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |
| Tripod Socket                                         | UNC 1/4-20 interface for tripod                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |
| Operating Temperature                                 | -20°C~+55°C                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |
| Operating Humidity                                    | 10%~95% (non-condensing)                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                          |
| Storage Temperature                                   | -40°C~+70°C                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |
| IP Grade                                              | IP54                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                          |
| Shock and Vibration                                   | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |
| Weight and Dimensions                                 | About 1.3kg (with battery), 144×129×307mm (subject to actual situations)                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                          |
| Authentication                                        | CE/RoHS/CMA, etc.                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |
| Packing List                                          | Thermal camera×1, standard lens, lithium-ion battery×2, charging stand, charger (with plug for use in multiple countries), charging cable, Bluetooth headset, SD card 64G, Type-C cable, lens hood, mold drawing, data download card, calibration certificate, certificate of qualification, hand strap (with buckle), safety box, lens cap (with screws) |                                                                                                                                                                                                          |

# AS600

## Flagship Thermal Camera

Equipped with a new-generation 12μm detector with a thermal sensitivity as low as 25mK, AS600 can present more delicate and clearer thermal images. Based on Android OS and integrated intelligent hardware, the device enables various professional and intelligent functions such as trend analysis, variable diaphragm lens, 25 points, lines, and areas, image freezing, intelligent electrical image stabilization (EIS), 5.5-inch touch screen.



### Product Highlights

#### Clear Thermal Images, Precise Temperature Measurement

- Equipped with a 12μm VOx detector, resolution of 640×512, supporting super-resolution up to 1280×1024.
- Capable of distinguishing the temperature difference of 0.025°C, with high measurement accuracy and more delicate thermal images.



#### Various Lenses and Fast Focusing

- Standard 25° lens, with optional wide-angle, long-focus, ultra-long-focus, and macro lenses, flexible for diverse scenarios.



#### Functional Upgrade to Improve Efficiency

- Android operating system, more convenient to operate.
- Support intelligent image stabilization, making temperature measurement images more stable.
- Support laser rangefinding and area measurement.



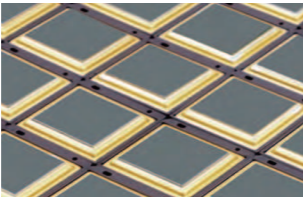
#### Intelligent Analysis, Efficient Temperature Measurement

- Support up to 25 points/lines/areas to analyze more temperature details in the screen.
- Support customized isotherms to highlight temperature segments or areas that need more attention.
- Support intelligent routine inspection, enabling import and editing of general task packages, etc.

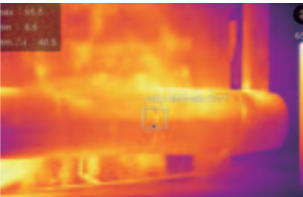
### Applications



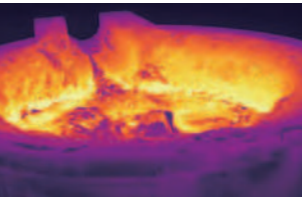
Electric Routine Inspection



High-End Scientific Research



Chemical Routine Inspection



High-Temperature Material Testing

### Specifications

| Thermal Imaging                                       |                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                                         | 12μm uncooled infrared detector                                                                                                                                                                                                                                                                                |
| Infrared Resolution                                   | 640×512                                                                                                                                                                                                                                                                                                        |
| Super Resolution                                      | 1280×1024                                                                                                                                                                                                                                                                                                      |
| Spectral Band                                         | 7.5~14μm                                                                                                                                                                                                                                                                                                       |
| Thermal Sensitivity (NETD)                            | <25mK (25°C,F1.0)                                                                                                                                                                                                                                                                                              |
| Frame Rate                                            | 25Hz                                                                                                                                                                                                                                                                                                           |
| Focal Length                                          | Standard lens: 17.7mm; super telephoto lens: 60.9mm; telephoto lens: 31.5mm; wide-angle lens: 9.5mm; macro lens (0.2×): 13mm; super macro lens (0.4×): 14.8mm.                                                                                                                                                 |
| FOV                                                   | Standard lens: 25°×20°; super telephoto lens: 7°×5.6°; telephoto lens: 14°×11.2°; wide-angle lens: 45°×36°.                                                                                                                                                                                                    |
| Spatial Resolution (IFOV)                             | Standard lens: 0.68mrad; super telephoto lens: 0.2mrad; telephoto lens: 0.38mrad; wide-angle lens: 1.26mrad;Macro lens: One pixel corresponds to 60μm; super macro lens: One pixel corresponds to 30μm.                                                                                                        |
| Focus Mode                                            | Manual focus, one-button center focus, automatic center focus, single-touch automatic focus, laser-assisted focus, electric micro focus                                                                                                                                                                        |
| Minimum Imaging Distance                              | Standard lens: 0.4m; super telephoto lens: 4m; telephoto lens: 3m; wide-angle lens: 0.2m; macro lens: 39mm; super macro lens: 19mm                                                                                                                                                                             |
| Measurement Range                                     | -20°C~+150°C, 100°C~650°C; optional: 400°C~+1500°C                                                                                                                                                                                                                                                             |
| Measurement Accuracy                                  | ±2°C or ±2% of readings, whichever is greater.                                                                                                                                                                                                                                                                 |
| Image Display                                         |                                                                                                                                                                                                                                                                                                                |
| Display                                               | 5.5-inch LCD touch screen, resolution 1920×1080                                                                                                                                                                                                                                                                |
| Visible Light Camera                                  | 13 megapixels                                                                                                                                                                                                                                                                                                  |
| Digital Zoom                                          | 1×~10×                                                                                                                                                                                                                                                                                                         |
| Palettes                                              | 19 options                                                                                                                                                                                                                                                                                                     |
| Image Mode                                            | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                                                                                                                                                                             |
| Temperature Width Stretch                             | Support                                                                                                                                                                                                                                                                                                        |
| Measurement and Analysis                              |                                                                                                                                                                                                                                                                                                                |
| Analysis Functions on the Device                      | Support up to 25 movable points, lines, frames, circles and polygons,and up to 5 preset modes                                                                                                                                                                                                                  |
| Laser Rangefinding                                    | Support                                                                                                                                                                                                                                                                                                        |
| Area Measurement                                      | Support                                                                                                                                                                                                                                                                                                        |
| Hygrothermograph                                      | Support                                                                                                                                                                                                                                                                                                        |
| Positioning                                           | Support                                                                                                                                                                                                                                                                                                        |
| Temperature Difference Analysis                       | Support                                                                                                                                                                                                                                                                                                        |
| Trend Analysis                                        | Support temperature trend recording and analysis                                                                                                                                                                                                                                                               |
| Image Freezing                                        | Support                                                                                                                                                                                                                                                                                                        |
| Analysis Report                                       | PDF format. Support template editing and importing on the PC client                                                                                                                                                                                                                                            |
| Supporting Software                                   | PC (infrared analysis software) & Mobile Device (iOS/Android app)                                                                                                                                                                                                                                              |
| Image Storage                                         |                                                                                                                                                                                                                                                                                                                |
| Storage Medium                                        | Standard 64GB Micro SD. Support SD, SDHC, and SDXC, up to 2TB                                                                                                                                                                                                                                                  |
| Text Notes                                            | Support                                                                                                                                                                                                                                                                                                        |
| Voice Notes                                           | Support                                                                                                                                                                                                                                                                                                        |
| Video Functions                                       |                                                                                                                                                                                                                                                                                                                |
| Radiate Infrared Video Recording                      | Support compressed full radiation video recording (.irv), up to 25Hz video recording.                                                                                                                                                                                                                          |
| Non-radiate Infrared or Visible Light Video Recording | Standard MP4 video recording                                                                                                                                                                                                                                                                                   |
| Radiate Infrared Video Stream Transmission            | TYPE-C/WLAN connection to PC, for real-time transmission of radiation infrared video streams                                                                                                                                                                                                                   |
| Non-radiate Infrared Video Stream Transmission        | RTSP H.264                                                                                                                                                                                                                                                                                                     |
| Video Resolution                                      | 1920x1080                                                                                                                                                                                                                                                                                                      |
| System Functions                                      |                                                                                                                                                                                                                                                                                                                |
| Intelligent Image Stabilization                       | Support                                                                                                                                                                                                                                                                                                        |
| Intelligent Panoramic Stitching                       | Support                                                                                                                                                                                                                                                                                                        |
| Intelligent Routine Inspection                        | Supported. General task package import and editing, standard and automatic naming of images                                                                                                                                                                                                                    |
| Non-radiate Infrared Video Stream Transmission        | Support                                                                                                                                                                                                                                                                                                        |
| Dual-Spectrum Video Recording                         | Simultaneous infrared video and visible light video recording, in MP4 format.                                                                                                                                                                                                                                  |
| Communication Protocol                                | Wi-Fi, Bluetooth, USB                                                                                                                                                                                                                                                                                          |
| Voice Control                                         | Voice assistant, quick command recognition                                                                                                                                                                                                                                                                     |
| Flashlight                                            | Support                                                                                                                                                                                                                                                                                                        |
| Others                                                |                                                                                                                                                                                                                                                                                                                |
| Microphone/Speaker                                    | Support                                                                                                                                                                                                                                                                                                        |
| Battery                                               | 9000mAh lithium-ion battery, field-replaceable, fast charging                                                                                                                                                                                                                                                  |
| Charging Mode                                         | USB Type-C or desktop charger                                                                                                                                                                                                                                                                                  |
| Battery Life                                          | Continuous operating time ≥ 3 hours (depending on the actual environment and service conditions)                                                                                                                                                                                                               |
| External Interface                                    | USB3.0 Type-C, SD card, SIM card, Mini HDMI                                                                                                                                                                                                                                                                    |
| Tripod Socket                                         | UNC 1/4-20 interface for tripod                                                                                                                                                                                                                                                                                |
| Operating Temperature                                 | -15°C~+50°C                                                                                                                                                                                                                                                                                                    |
| Operating Humidity                                    | 10%~95% (non-condensing)                                                                                                                                                                                                                                                                                       |
| Storage Temperature                                   | -40°C~+70°C                                                                                                                                                                                                                                                                                                    |
| IP Grade                                              | IP54                                                                                                                                                                                                                                                                                                           |
| Shock and Vibration                                   | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                                                                                                                                                                    |
| Weight and Dimensions                                 | About 1.3kg (with battery), 278×116×113mm                                                                                                                                                                                                                                                                      |
| Authentication                                        | CE/RoHS/CMA, etc.                                                                                                                                                                                                                                                                                              |
| Packing List                                          | Thermal camera×1, manual, calibration certificate, quick operation guide, data download card, certificate of qualification, multi-country adapter, USB data cable×1, lithium-ion battery×3, portable bag, charging cradle×1, HDMI cable×1, hand strap, backpack strap, SD card, charging stand, standard lens. |

# AS1280

## Flagship Thermal Camera

AS1280 is Raythink's first 1280×1024 high-performance, high-pixel thermal camera especially for scientific research. Equipped with a self-developed new-generation VOx infrared detector with a thermal sensitivity as low as 25mK, this device uses intelligent image algorithms and precise temperature measurement algorithms to provide clearer infrared images and higher measurement accuracy. Android operating system, intelligent applications & miscellaneous functions, and a 5.5-inch angle-adjustable display and rotatable handle bring a better experience meeting the ergonomics requirements.



### Product Highlights

#### Clear Thermal Images, Precise Temperature Measurement

- 1280×1024 ultra-high infrared resolution, providing up to 2560×2048 high-definition super-resolution infrared thermal images.
- With a high thermal sensitivity, capable of distinguishing the temperature difference of 0.025°C, with high measurement accuracy and more delicate thermal images.



#### Various Lenses and Fast Focusing

- Full coverage of lens focal lengths: 45°, 25°, 12° and 50μm, 25μm macro lenses to match more business applications.
- Support multiple focusing methods such as manual focus, auto focus, laser focus, auto focus, and continuous auto-focusing.



#### AI Empowerment for Efficient Work

- Android system, more in line with users' habits and more convenient to operate.
- Support up to 35 analysis area settings to analyze more temperature details.
- 30Hz frame rate supports lossless compression of 16bit, meeting the needs of users for high frame rate and full-function secondary video analysis.



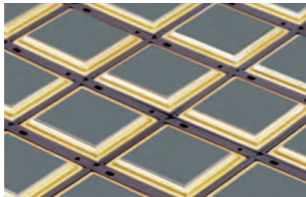
#### High-end Configuration, Easy to Work

- The classic shape of the SLR camera and the design of the fixed lens offer a better operational experience.
- 5.5-inch flippable touch screen + OLED viewfinder of 1920×1080 for clearer field observation for users.
- Support OTA upgrade, QC3.0/PD fast charging protocol.
- Support Wi-Fi wireless screen mirroring and radiation video streaming and FTP/HTTP coverage of PCs and mobile devices.

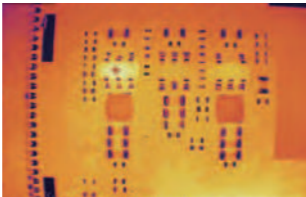
### Applications



Electric Routine Inspection



Scientific Research



Microelectronics



Nondestructive Testing

| Specifications                                        |                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thermal Imaging                                       |                                                                                                                                                                                                                                                                                                                |
| Detector Type                                         | 12μm uncooled infrared detector                                                                                                                                                                                                                                                                                |
| Infrared Resolution                                   | 1280×1024                                                                                                                                                                                                                                                                                                      |
| Super Resolution                                      | 2560×2048                                                                                                                                                                                                                                                                                                      |
| Spectral Band                                         | 7.5~14μm                                                                                                                                                                                                                                                                                                       |
| Thermal Sensitivity (NETD)                            | <25mK (25°C,F1.0)                                                                                                                                                                                                                                                                                              |
| Frame Rate                                            | 30Hz                                                                                                                                                                                                                                                                                                           |
| Focal Length                                          | Standard lens: 34.9mm; wide-angle lens: 19.8mm; telephoto lens: 72.9mm; macro lens (0.2×): 17.8mm; super macro lens (0.4×): 15.2mm                                                                                                                                                                             |
| FOV                                                   | Standard lens: 25°×20°; telephoto lens: 12°×9.6°; wide-angle lens: 45°×36°                                                                                                                                                                                                                                     |
| Spatial Resolution (IFOV)                             | Standard lens: 0.34mrad; telephoto lens: 0.17mrad; wide-angle lens: 0.6mrad; macro lens: One pixel corresponds to 50μm; super macro lens: One pixel corresponds to 25μm.                                                                                                                                       |
| Focus Mode                                            | Manual focus, electric micro focus, one-button center focus, automatic center focus,single-touch automatic focus, laser-assisted focus                                                                                                                                                                         |
| Minimum Imaging Distance                              | Standard lens: 0.5m; telephoto lens: 2.3m; wide-angle lens: 0.2m; macro lens: 46mm; super macro lens: 13mm                                                                                                                                                                                                     |
| Measurement Range                                     | Standard: -20°C~+150°C (low temperature range), 150°C~800°C (medium temperature range). Optional: 400°C~1500°C, other ranges (high temperature range)                                                                                                                                                          |
| Measurement Accuracy                                  | At 25°C normal temperature, the temperature measurement range is between 5°C~150°C, and the accuracy is ±1°C or ±1% of the reading (whichever is greater).At 25°C normal temperature, the temperature measurement range is below 1500°C, and the accuracy is ±2°C or ±2% of the reading.                       |
| Measurement and Analysis                              |                                                                                                                                                                                                                                                                                                                |
| Display                                               | 5.5-inch LCD touch screen, resolution 1920×1080                                                                                                                                                                                                                                                                |
| Visible Light Camera                                  | 13 megapixels                                                                                                                                                                                                                                                                                                  |
| Digital Zoom                                          | 1×~10×                                                                                                                                                                                                                                                                                                         |
| Palettes                                              | 19 options                                                                                                                                                                                                                                                                                                     |
| Image Mode                                            | Infrared, visible light, PIP, dual-spectrum fusion                                                                                                                                                                                                                                                             |
| Temperature Width Stretch                             | Support                                                                                                                                                                                                                                                                                                        |
| Measurement and Analysis                              |                                                                                                                                                                                                                                                                                                                |
| Analysis Functions on the Device                      | Support up to 35 movable points, lines, frames, and polygonal areas (maximum and minimum temperature capture, average temperature measurement,environment variables, area alarm switch), and up to 5 preset modes                                                                                              |
| Laser Rangefinding                                    | Support                                                                                                                                                                                                                                                                                                        |
| Area Measurement                                      | Support                                                                                                                                                                                                                                                                                                        |
| Positioning                                           | Support                                                                                                                                                                                                                                                                                                        |
| Temperature Difference Analysis                       | Support                                                                                                                                                                                                                                                                                                        |
| Trend Analysis                                        | Supports temperature trend recording and analysis.                                                                                                                                                                                                                                                             |
| Image Freezing                                        | Support                                                                                                                                                                                                                                                                                                        |
| Analysis Report                                       | PDF format. Support editing and template importing on the PC client.                                                                                                                                                                                                                                           |
| Supporting Software                                   | PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)                                                                                                                                                                                                                                              |
| Image Storage                                         |                                                                                                                                                                                                                                                                                                                |
| Storage Medium                                        | Standard 64GB Micro SD. Support SD, SDHC, and SDXC, up to 2TB                                                                                                                                                                                                                                                  |
| Text Notes                                            | Support                                                                                                                                                                                                                                                                                                        |
| Voice Notes                                           | Support                                                                                                                                                                                                                                                                                                        |
| Video Functions                                       |                                                                                                                                                                                                                                                                                                                |
| Radiate Infrared Video Recording                      | Support compressed full radiation video recording (.irv), up to 25Hz video recording.                                                                                                                                                                                                                          |
| Non-radiate Infrared or Visible Light Video Recording | Standard MP4 video recording                                                                                                                                                                                                                                                                                   |
| Radiate Infrared Video Stream Transmission            | Analysis at about 25Hz on PC                                                                                                                                                                                                                                                                                   |
| Non-radiate Infrared Video Stream Transmission        | RTSP H.264                                                                                                                                                                                                                                                                                                     |
| Video Resolution                                      | 1920x1080                                                                                                                                                                                                                                                                                                      |
| System Functions                                      |                                                                                                                                                                                                                                                                                                                |
| Intelligent Image Stabilization                       | Support                                                                                                                                                                                                                                                                                                        |
| Intelligent Panoramic Stitching                       | Support                                                                                                                                                                                                                                                                                                        |
| Intelligent Routine Inspection                        | Supported. General task package import and editing, standard and automatic naming of images                                                                                                                                                                                                                    |
| Non-radiate Infrared Video Stream Transmission        | Support                                                                                                                                                                                                                                                                                                        |
| Dual-Spectrum Video Recording                         | Simultaneous infrared video and visible light video recording, in MP7 format                                                                                                                                                                                                                                   |
| Communication Protocol                                | Wi-Fi, Bluetooth, USB                                                                                                                                                                                                                                                                                          |
| Voice Control                                         | Voice assistant, quick command recognition                                                                                                                                                                                                                                                                     |
| Flashlight                                            | Support                                                                                                                                                                                                                                                                                                        |
| Others                                                |                                                                                                                                                                                                                                                                                                                |
| Microphone/Speaker                                    | Support                                                                                                                                                                                                                                                                                                        |
| Battery                                               | 9000mAh lithium-ion battery, field-replaceable, fast charging                                                                                                                                                                                                                                                  |
| Charging Mode                                         | USB Type-C or desktop charger                                                                                                                                                                                                                                                                                  |
| Battery Life                                          | Continuous operating time ≥ 3 hours (depending on the actual environment and service conditions)                                                                                                                                                                                                               |
| External Interface                                    | USB3.0 Type-C, SD card, SIM card, Mini HDMI                                                                                                                                                                                                                                                                    |
| Tripod Socket                                         | UNC 1/4-20 interface for tripod                                                                                                                                                                                                                                                                                |
| Operating Temperature                                 | -15°C~+50°C                                                                                                                                                                                                                                                                                                    |
| Operating Humidity                                    | 10%~95% (non-condensing)                                                                                                                                                                                                                                                                                       |
| Storage Temperature                                   | -40°C~+70°C                                                                                                                                                                                                                                                                                                    |
| IP Grade                                              | IP54                                                                                                                                                                                                                                                                                                           |
| Shock and Vibration                                   | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                                                                                                                                                                    |
| Weight and Dimensions                                 | <1.7kg (with battery), 140×210×115mm                                                                                                                                                                                                                                                                           |
| Authentication                                        | CE/RoHS/CMA, etc.                                                                                                                                                                                                                                                                                              |
| Packing List                                          | Thermal camera×1, manual, calibration certificate, quick operation guide, data download card, certificate of qualification, multi-country adapter, USB data cable×1, lithium-ion battery×3, portable bag, charging cradle×1, HDMI cable×1, hand strap, backpack strap, SD card, charging stand, standard lens. |

# AG600C

## OGI Handheld Camera

Using an uncooled VOx detector featuring high spatial resolution and high sensitivity, powered by infrared thermal imaging technology, AG600C enables non-contact, visual leak location for dozens of gases such as natural gas (CH<sub>4</sub>) and Freon, in addition to daily temperature measurement needs. This series are ideal for gas security, emission management, and equipment maintenance in industries such as oil and gas, petrochemical, environmental protection and emergency response.



### Product Highlights

#### Customized Filter Detector for Clearer Images

- Equipped with a 640×512 customized band-pass filter detector to eliminate stray light interference; capable of distinguishing a temperature difference of 0.023°C, capturing gas microleakage.
- Spatial resolution as low as 0.63mrad, providing wider working distances or better gas details.



#### Versatile, Which is the Best Helper for Routine Inspections

- Simultaneous observation of thermal imaging and visible light to easily locate gas leaks.
- High accuracy of temperature measurement, easy to meet the dual tasks of gas leakage detection and temperature measurement.
- 3.5-inch touch screen+ complete analysis functions, easy to facilitate routine inspection tasks.



#### IIC T4 Explosive-Proof, Safe and Reliable

- Ex ic IIC T4 explosive-proof rated, suitable for security applications in explosive-proof application such as oil and natural gas routine inspections.



### Specifications

| Thermal Imaging Parameters                         |                                                                                                                                                   |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                                      | Uncooled infrared detector                                                                                                                        |
| Infrared Resolution                                | 640×512                                                                                                                                           |
| Spectral Band                                      | 7.0~8.5μm                                                                                                                                         |
| Gases Detectable                                   | Methane, nitrous oxide, sulfur dioxide, phenol, ethyl acrylate, 2-ethylhexyl acrylate, freon (R13, R13B1, R123, R125, R134A, R417A, R422A, R508A) |
| Pixel Size                                         | 12μm                                                                                                                                              |
| Thermal Sensitivity (NETD)                         | 23mK                                                                                                                                              |
| Spatial Resolution (IFOV)                          | 0.63mrad                                                                                                                                          |
| Frame Rate                                         | 30Hz                                                                                                                                              |
| Focal Length                                       | 19mm                                                                                                                                              |
| FOV                                                | 23°×18°                                                                                                                                           |
| Focus Mode                                         | Manual                                                                                                                                            |
| Measurement Range                                  | -20°C~+120°C                                                                                                                                      |
| Measurement Accuracy                               | ±2% or ±2°C                                                                                                                                       |
| Overall Device                                     |                                                                                                                                                   |
| Measurement 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, 10 areas, and 10 lines                                                                               |
| Measurement Unit                                   | Celsius, Fahrenheit, Kelvin                                                                                                                       |
| Emissivity                                         | 0.01~1.00, step size 0.01                                                                                                                         |
| Ambient Temperature                                | -10°C~+50°C, step size 1°C                                                                                                                        |
| Distance Settings                                  | 1~20m, step size 1m                                                                                                                               |
| Image Mode                                         | Infrared, visible light, dual-spectrum fusion, PIP                                                                                                |
| Palettes                                           | 10                                                                                                                                                |
| Temperature Alarm                                  | Available                                                                                                                                         |
| Alarm Type                                         | Image Alarm                                                                                                                                       |
| Temperature Width Stretch                          | 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 Note                                         | Available                                                                                                                                         |
| Language                                           | English, Japanese, Poland, Russian, Korean, Hungarian, Bap, German, French, Spain, Italy, Turkey, and Traditional Chinese                         |
| Display Size                                       | 3.5-inch touch screen (480×640)                                                                                                                   |
| Image Naming                                       | Auto/manual naming, naming by scanning QR code                                                                                                    |
| Memory Card                                        | Standard 32GB Micro SD card                                                                                                                       |
| Battery Type                                       | Rechargeable and detachable lithium-ion battery                                                                                                   |
| Power Interface                                    | USB TypeC                                                                                                                                         |
| Connecting Method                                  | USB, SD card, Wi-Fi (AP mode or networking mode)                                                                                                  |
| Charging Time                                      | About 3h                                                                                                                                          |
| Battery Life                                       | About 3h                                                                                                                                          |
| Power Management                                   | Automatic shutdown: 5 minutes, 10 minutes, 20 minutes, never                                                                                      |
| Others                                             |                                                                                                                                                   |
| Analysis Software                                  | PC & App                                                                                                                                          |
| Tripod Support                                     | Available                                                                                                                                         |
| Operating Temperature                              | -10°C~+50°C                                                                                                                                       |
| Storage Temperature                                | -20°C~+60°C                                                                                                                                       |
| Relative Humidity                                  | 10%~95%, non-condensing                                                                                                                           |
| Drop Protection                                    | 2m                                                                                                                                                |
| IP Grade                                           | IP54(IEC 60529)                                                                                                                                   |
| Shock and Vibration                                | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                       |
| Dimensions                                         | 258.4 ×105.1 ×102.3(mm)                                                                                                                           |
| Weight                                             | About 670g                                                                                                                                        |
| Authentication                                     | CE/ROHS, etc.                                                                                                                                     |
| Packing List                                       | 5V 3A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger, calibration certificate, package list                    |

### Applications



Petrochemical



Emergency Response and Environmental Protection



Cold-Chain and Cold Storage



Oil Exploitation

# AG600F

## OGI Handheld Camera

Using an uncooled VOx detector featuring high spatial resolution and high sensitivity, powered by infrared thermal imaging technology, AG600F enables non-contact, visual leak location for dozens of gases such as ammonia (NH<sub>3</sub>) and sulfur hexafluoride (SF<sub>6</sub>), in addition to daily temperature measurement needs. This series are ideal for gas security, emission management, and equipment maintenance in industries such as oil and gas, petrochemical, environmental protection, emergency response and electric utilities.



### Product Highlights

#### Customized Filter Detector for Clearer Images

- Equipped with a 640×512 customized band-pass filter detector to eliminate stray light interference; capable of distinguishing a temperature difference of 0.023°C, capturing gas microleakage.
- Spatial resolution as low as 0.63mrad, providing wider working distances or better gas details



#### Versatile, Which is the Best Helper for Routine Inspections

- 1.Simultaneous observation of thermal imaging and visible light to easily locate gas leaks.
- High accuracy of temperature measurement, easy to meet the dual tasks of gas leakage detection and temperature measurement.
- 3.5-inch touch screen+ complete analysis functions, easy to facilitate routine inspection tasks.



#### IIC T4 Explosive-Proof, Safe and Reliable

- Ex ic IIC T4 explosive-proof rated, suitable for security applications in explosive-proof application such as oil and natural gas routine inspections.



### Specifications

| Thermal Imaging Parameters                         |                                                                                                                                                                                                                                 |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detector Type                                      | Uncooled infrared detector                                                                                                                                                                                                      |
| Infrared Resolution                                | 640×512                                                                                                                                                                                                                         |
| Spectral Band                                      | Central wavelength 10.55μm                                                                                                                                                                                                      |
| Gases Detectable                                   | Sulfur hexafluoride, ammonia, ethylene, vinyl 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 (NETD)                         | 23mK                                                                                                                                                                                                                            |
| Spatial Resolution (IFOV)                          | 0.63mrad                                                                                                                                                                                                                        |
| Frame Rate                                         | 30Hz                                                                                                                                                                                                                            |
| Focal Length                                       | 19mm                                                                                                                                                                                                                            |
| FOV                                                | 23°×18°                                                                                                                                                                                                                         |
| Focus Mode                                         | Manual                                                                                                                                                                                                                          |
| Measurement Range                                  | -20°C~+120°C                                                                                                                                                                                                                    |
| Measurement Accuracy                               | ±2% or ±2°C                                                                                                                                                                                                                     |
| Overall Device                                     |                                                                                                                                                                                                                                 |
| Measurement 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, 10 areas, and 10 lines                                                                                                                                                             |
| Measurement Unit                                   | Celsius, Fahrenheit, Kelvin                                                                                                                                                                                                     |
| Emissivity                                         | 0.01~1.00, step size 0.01                                                                                                                                                                                                       |
| Ambient Temperature                                | -10°C~+50°C, step size 1°C                                                                                                                                                                                                      |
| Distance Settings                                  | 1~20m, step size 1m                                                                                                                                                                                                             |
| Image Mode                                         | Infrared, visible light, dual-spectrum fusion, PIP                                                                                                                                                                              |
| Palettes                                           | 10                                                                                                                                                                                                                              |
| Temperature Alarm                                  | Available                                                                                                                                                                                                                       |
| Alarm Type                                         | Image Alarm                                                                                                                                                                                                                     |
| Temperature Width Stretch                          | 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 Note                                         | Available                                                                                                                                                                                                                       |
| Language                                           | English, Japanese, Poland, Russian, Korean, Hungarian, Bap, German, French, Spain, Italy, Turkey, and Traditional Chinese                                                                                                       |
| Display Size                                       | 3.5-inch touch screen (480×640)                                                                                                                                                                                                 |
| Image Naming                                       | Auto/manual naming, naming by scanning QR code                                                                                                                                                                                  |
| Memory Card                                        | Standard 32GB Micro SD card                                                                                                                                                                                                     |
| Battery Type                                       | Rechargeable and detachable lithium-ion battery                                                                                                                                                                                 |
| Power Interface                                    | USB TypeC                                                                                                                                                                                                                       |
| Connecting Method                                  | USB, SD card, Wi-Fi (AP mode or networking mode)                                                                                                                                                                                |
| Charging Time                                      | About 3h                                                                                                                                                                                                                        |
| Battery Life                                       | About 3h                                                                                                                                                                                                                        |
| Power Management                                   | Automatic shutdown: 5 minutes, 10 minutes, 20 minutes, never                                                                                                                                                                    |
| Others                                             |                                                                                                                                                                                                                                 |
| Analysis Software                                  | PC & App                                                                                                                                                                                                                        |
| Tripod Support                                     | Available                                                                                                                                                                                                                       |
| Operating Temperature                              | -10°C~+50°C                                                                                                                                                                                                                     |
| Storage Temperature                                | -20°C~+60°C                                                                                                                                                                                                                     |
| Relative Humidity                                  | 10%~95%, non-condensing                                                                                                                                                                                                         |
| Drop Protection                                    | 2m                                                                                                                                                                                                                              |
| IP Grade                                           | IP54(IEC 60529)                                                                                                                                                                                                                 |
| Shock and Vibration                                | Shock: 25g (IEC 60068-2-27); vibration: 2.5g (IEC60068-2-6)                                                                                                                                                                     |
| Dimensions                                         | 258.4 ×105.1 ×102.3(mm)                                                                                                                                                                                                         |
| Weight                                             | About 670g                                                                                                                                                                                                                      |
| Authentication                                     | CE/ROHS, etc.                                                                                                                                                                                                                   |
| Packing List                                       | 5V 3A power adaptor, USB cable, SD card, battery ×2, Quick Start Guide, battery charger, calibration certificate, package list                                                                                                  |

### Applications









# AHGD

## Gas Detection Infrared Camera

The AHGD gas detection thermal imaging camera uses a cooled infrared detector to provide visual observation of trace gas leaks at long distances, enabling rapid localization of the leak source. It offers visual monitoring for over 20 types of gases, including methane and ethane, and effectively monitors VOCs (Volatile Organic Compounds) levels. The device is primarily used in industries such as oil, chemical; natural gas, and power, to prevent accidents related to hazardous gas emissions and ensure safe production.



- Electrical Safety
- Safety Monitoring
- Environmental Protection
- Smart Industry
- Oil Industry
- Chemical Safety
- Natural Gas

| Specifications            |                         |                                                                                                                                                                                                                                                                          |
|---------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Visible light             |                         |                                                                                                                                                                                                                                                                          |
| Detector Parameters       | Detector                | CMOS                                                                                                                                                                                                                                                                     |
|                           | Resolution              | 2594 x 1944                                                                                                                                                                                                                                                              |
|                           | Pixel Pitch             | 2.0μm                                                                                                                                                                                                                                                                    |
|                           | Frame Rate              | 30Hz                                                                                                                                                                                                                                                                     |
| Optical Parameters        | Aperture (F)            | F2.5                                                                                                                                                                                                                                                                     |
|                           | Focal Length            | 3.5 ~ 9mm                                                                                                                                                                                                                                                                |
|                           | FOV                     | D. Diagonal 93°(W)~39.4°(T) H. Horizontal 83°(W)~32°(T) V. Vertical 51°(W)~20°(T)                                                                                                                                                                                        |
|                           | Focusing Method         | Electric/Automatic                                                                                                                                                                                                                                                       |
| Infrared                  |                         |                                                                                                                                                                                                                                                                          |
| Detector Parameters       | Photosensitive Material | InSb                                                                                                                                                                                                                                                                     |
|                           | Resolution              | 640 x 512                                                                                                                                                                                                                                                                |
|                           | Pixel Pitch             | 15μm                                                                                                                                                                                                                                                                     |
|                           | Response Wavelength     | 3.2μm ~ 3.4μm                                                                                                                                                                                                                                                            |
|                           | NETD                    | ≤35mk                                                                                                                                                                                                                                                                    |
| Optical Parameters        | Default Frame Rate      | 25/30Hz                                                                                                                                                                                                                                                                  |
|                           | Aperture (F)            | F1.2                                                                                                                                                                                                                                                                     |
|                           | Focal Length            | 25mm                                                                                                                                                                                                                                                                     |
|                           | FOV                     | 22.3°× 17.7°                                                                                                                                                                                                                                                             |
|                           | Focusing Method         | Electric/Automatic                                                                                                                                                                                                                                                       |
| Display                   |                         |                                                                                                                                                                                                                                                                          |
| Display Screen            |                         | 3.5-inch LCD, 1080P, Rotatable                                                                                                                                                                                                                                           |
| Viewfinder (Eyepiece)     |                         | 0.39-inch OLED, 1024× 768, Rotatable                                                                                                                                                                                                                                     |
| Display Interface         |                         | HDMI                                                                                                                                                                                                                                                                     |
| Temp Measurement          |                         |                                                                                                                                                                                                                                                                          |
| TEMP Measurement Range    |                         | -20℃ ~ 350℃                                                                                                                                                                                                                                                              |
| TEMP Measurement Mode     |                         | Supports point and area temperature measurement<br>Automatic tracking of the highest temperature point,<br>Configurable maximum and minimum temperatures,<br>Isotherms, Temperature difference, And Temperature alarm                                                    |
| TEMP Measurement Accuracy |                         | ±1℃ (0~100℃) ±2% Reading Range (-20~0℃ or> 100℃)                                                                                                                                                                                                                         |
| System                    |                         |                                                                                                                                                                                                                                                                          |
| Button                    | Power Switch            | Device Power Switch Control                                                                                                                                                                                                                                              |
| Communication             | USB                     | TYPE-C                                                                                                                                                                                                                                                                   |
| Other                     |                         |                                                                                                                                                                                                                                                                          |
| Supplementary Light       |                         | White Light Supplementary Light                                                                                                                                                                                                                                          |
| Laser Pointer             |                         | Class II, 1mW/635nm Red                                                                                                                                                                                                                                                  |
| GPS                       |                         | Supported                                                                                                                                                                                                                                                                |
| Internal Storage          |                         | Built-in 32GB                                                                                                                                                                                                                                                            |
| Battery                   |                         | Rechargeable Lithium Battery(TYPE-C)                                                                                                                                                                                                                                     |
| Operating Time            |                         | ≥2h                                                                                                                                                                                                                                                                      |
| Mounting Method           |                         | Supports Tripod Mounting                                                                                                                                                                                                                                                 |
| Dimensions                |                         |                                                                                                                                                                                                                                                                          |
| Whole Unit                | Dimensions              | 383 x 167 x 149mm                                                                                                                                                                                                                                                        |
| Weight                    |                         |                                                                                                                                                                                                                                                                          |
| Whole Unit                | Weight                  | ≤1.6Kg                                                                                                                                                                                                                                                                   |
| Gas Leak Detection        |                         |                                                                                                                                                                                                                                                                          |
| Detection Type            | Detectable Gas Types    | Methane, Ethane, Propane, Butane, Pentane, Hexane, Heptane, Octane, Ethylene Oxide, Propylene Oxide, Ethylene, Propylene,1-Butene, Methanol, Ethanol, Butanol, Ethylene Glycol, Isopropanol, Ethyl Ether, Propionaldehyde, Benzene, Toluene, Ethylbenzene, Aniline, etc. |

Specifications

Petrochemical

Emergency Response and Environmental Protection

Electric Power and Energy

Oil Exploitation

# ANGD

## Gas Detection Infrared Camera

This gas detection thermal imaging camera uses a cooled infrared detector to provide visual observation of trace gas leaks at long distances, enabling rapid localization of the leak source. It offers visual monitoring for over 20 types of gases, including methane and ethane, and effectively monitors VOCs (Volatile Organic Compounds) levels. The device is primarily used in industries such as oil, chemical, natural gas, and power, to prevent accidents related to hazardous gas emissions and ensure safe production.




-   
Electrical Safety
-   
Safety Monitoring
-   
Environmental Protection
-   
Smart Industry
-   
Oil Industry
-   
Chemical Safety
-   
Natural Gas

| Specifications            |                               |                                                                                                                                                        |
|---------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Visible light             |                               |                                                                                                                                                        |
| Camera Parameters         | Detector                      | CMOS                                                                                                                                                   |
|                           | Electronic Shutter            | 1/25s~1/100,000s,Supports Slow Shutter                                                                                                                 |
|                           | Automatic Aperture            | DC Drive                                                                                                                                               |
|                           | Resolution                    | 50Hz: 25fps (2688 x 1520, 2560 x 1440,1920 x 1080, 1280 x 960, 1280 x 720); 60Hz: 30fps (2688 x 1520, 2560 x 1440,1920 x 1080, 1280 x 960, 1280 x 720) |
| Optical Parameters        | Frame Rate                    | 50Hz / 60Hz                                                                                                                                            |
|                           | Aperture (F)                  | F1.61~F5.19                                                                                                                                            |
|                           | Focal length                  | 6.6~264mm, 40x optical zoom                                                                                                                            |
|                           | Zoom Speed                    | 4s (Optical, Wide~angle to telephoto)                                                                                                                  |
|                           | Minimum Focusing Distance     | 100mm~ 1500mm (Wide~angle to telephoto)                                                                                                                |
| Infrared                  |                               |                                                                                                                                                        |
| Detector Parameters       | Photosensitive Material       | Indium Antimonide                                                                                                                                      |
|                           | Resolution                    | 640 x 512                                                                                                                                              |
|                           | Pixel Pitch                   | 15μm                                                                                                                                                   |
|                           | Response Wavelength           | 3.2μm~3.4μm                                                                                                                                            |
|                           | NETD                          | ≤15mk                                                                                                                                                  |
|                           | Default Frame Rate            | 25/30Hz                                                                                                                                                |
|                           | Cooling Time                  | ≤6.5min @ 71℃                                                                                                                                          |
| Optical Parameters        | Cooling Power Consumption     | ≤20W @ 23℃                                                                                                                                             |
|                           | Aperture (F)                  | F1.2                                                                                                                                                   |
|                           | Focal length                  | 30mm~90mm                                                                                                                                              |
|                           | FOV                           | 18°~6°                                                                                                                                                 |
| Interface                 |                               |                                                                                                                                                        |
| Video Interface           | Network Interface Type        | 100 Mbps Ethernet Aviation Plug                                                                                                                        |
| Control Interface         | Pan-tilt Control Interface    | RS485                                                                                                                                                  |
| Power Interface           | Supply Voltage                | DC_24V                                                                                                                                                 |
| Overall power Consumption | Power Consumption (25℃/24V)   | ≤120W                                                                                                                                                  |
| Startup Time              |                               | ≤7min                                                                                                                                                  |
| Working Environment       |                               |                                                                                                                                                        |
| Normal Status             | Operating Time                | 24h x365 ,Service Life > 5years                                                                                                                        |
|                           | Operating Temperature         | -40℃~55℃                                                                                                                                               |
|                           | Storage Temperature           | -45℃~60℃                                                                                                                                               |
|                           | Operating Humidity            | 0~99%                                                                                                                                                  |
|                           | Protection Rating             | IP66                                                                                                                                                   |
|                           | Explosion-proof Certification | ExdIIBT4Gb                                                                                                                                             |
| Overall Dimensions        |                               |                                                                                                                                                        |
| Dimensions                |                               | 449 x 449 x 495mm                                                                                                                                      |
| Other                     |                               |                                                                                                                                                        |
| Supplementary lighting    |                               | Supports Visible light Supplementary lighting                                                                                                          |

Specifications

  
Petrochemical

  
Emergency Response and Environmental Protection

  
Electric Power and Energy

  
Oil Exploitation

# IVI-A1

## Thermal Camera

The IVI-A1 series automotive thermal imaging system is an advanced artificial intelligence solution for the automotive industry. It utilizes enhanced super-resolution algorithms to provide a clear and intelligent view. Ideal for passenger cars, commercial vehicles, specialty vehicle, rail transportation, driver assistance and autonomous driving. It as a compact body and supports front-mounted or rear-mounted, designed for varying recognition distances and fields of view. It ensures safe driving in harsh environments such as darkness, intense ight, haze, light rain or snow.



| Specifications            |                                       |
|---------------------------|---------------------------------------|
| Detector Parameters       |                                       |
| Type                      | Uncooled VOx Microbolometer           |
| Resolution, pixels        | 640×512/12μm                          |
| Spectral Band             | 8~14μm                                |
| Frame Rate,HZ             | 25Hz                                  |
| Optical Parameters        |                                       |
| Objective Lens            | 9mm                                   |
| Field of View             | H40°                                  |
| Recognition Range (Human) | 220m                                  |
| Recognition Range (Car)   | 290m                                  |
| Device Information        |                                       |
| Display                   | 5.99"LCD 1080*2160                    |
| Interface                 | GMSL/FAKRA/Type-C                     |
| Wi-Fi Transmission        | Wi-Fi                                 |
| External Power Supply     | Type-C(5V 3A)/5000mAh Capsule Battery |
| Power Wastage             | ≤15W(Frost Removal)                   |
| Protection Rating         | IP67(Thermal Camera)                  |
| Operation Temperature     | -20 °C~+80 °C                         |
| Weight (No Capsule Batt.) | ≤600g                                 |
| Dimensions                | 170*88*19mm                           |
| Defrost function          | Supports                              |
| Smart recognition         | Supports                              |
| Lens protection window    | High-strength protection window       |



In-Vehicle



Outdoor Portable



Wi-Fi Interconnection

# ES-IR-A75

## Infrared Panoramic Radar

This infrared panoramic radar uses a 12-micron uncooled core component, operating without a shutter or TEC , ensuring stable infrared image capture even during continuous rotation, with clear imaging and no lag. The system is developed based on thermal infrared imaging technology, integrating advanced optical stabilization and image processing techniques, providing fast 360° wide-area real-time monitoring, and equipped with intelligent target detection, recognition, and tracking capabilities.



| Specifications               |                                                       |
|------------------------------|-------------------------------------------------------|
| Detector Parameters          |                                                       |
| Type                         | Uncooled VOx Microbolometer                           |
| Resolution, Pixels           | 640×512                                               |
| Spectral Band                | 8~14μm                                                |
| Optical Parameters           |                                                       |
| Objective Lens               | 75mm                                                  |
| Horizontal field of View     | 360°                                                  |
| Vertical Field of View       | 5.9°                                                  |
| Pitch Angle Adjustment Range | -35°~+20°                                             |
| Detection Range(UAV)         | 1880m                                                 |
| Detection Range (Human)      | 7090m                                                 |
| Detection Range(Car)         | 9590m                                                 |
| Detection Range(Boat)        | 33340m                                                |
| Physical Parameters          |                                                       |
| Electricity Supply           | 24V                                                   |
| Average Power Consumption    | <140W                                                 |
| Image Data Output Interface  | Network Port                                          |
| Protection Rating            | IP65                                                  |
| Operation Temperature        | -40°C~+60°C                                           |
| Weight                       | 13Kg                                                  |
| Dimensions                   | 340X340X402mm                                         |
| Usage Scenarios              | Factories, Ports, Key Sites, Airports,Border Security |

- Panoramic View
- Real-Time Search
- Multi-Target Tracking
- Virtual Perimeter
- Smart Sensing
- All-Day Timing
- High-Definition (HD) Quality
- Adaptation To Harsh Environments
- High Reliability
- Intelligent Visible Light Integration

# AC001

## Thermal Camera

AC001 thermal camera 256x192 AI-Temp, Dual system, can support the latest Apple 15 and above system and Android system.

Exhibit a thermal image with sharpness by 256 form -20°C~60°C, NETD ≤ 50mk.

Ultra-low consumption 0.5W

Professional temperature measurement mode,temperature measurement environment correction.

Free professional secondary temp data analysisyou can view and analyze previously captured infraed images anytime, anywhere.


Set the temperature display range as you will to make the target more prominent.

Full HD recording compatibility with smooth 25HZ, one click to share.



| Specifications          |                                                  |
|-------------------------|--------------------------------------------------|
| Detector                |                                                  |
| Detector Type           | 256*192                                          |
| Pixel Size              | 12um                                             |
| NETD                    | ≤50mK                                            |
| Operating Band          | 8~14um                                           |
| Performance             |                                                  |
| Frame Rate              | 25Hz                                             |
| Operating Temperature   | -20°C~60°C                                       |
| Storage Temperature     | -40°C~85°C                                       |
| Power Consumption       | ≤100ma                                           |
| Processor               | ASIC                                             |
| Lens                    |                                                  |
| Focal length            | 4.3mm                                            |
| Aperture                | F1.2                                             |
| FOV                     | 40° (H) x 30° (V)                                |
| Focusing Mode           | Non-thermal focusing lens                        |
| Temperature Measurement |                                                  |
| Measurement Range       | -20°C~600°C                                      |
| Measuring Error         | ±2°C (±2% of reading, the greater shall prevail) |
| Temperature Correction  | Emissivity, distance, environmental temperature  |

Specifications




Electrical Inspections



HVAC Inspections



Pipeline Inspection



House Inspections

# AC002

## Thermal Camera

AC002 thermal camera forAndroid.

256x192IR resolution and a robust 120W visible light lens, paired with cutting-edgeimage fusion technology,this device redefines image quality standards and enhances overall visual precision.

Temperature range from -10°C~55°C, NETD < 50mk.

Ultra-low consumption 0.65W

Professional temperature measurement mode,temperature measure-ment environment correction.


Free professional secondary temp data analysis, you can view andanalyze previously captured infraedimages anytime, anywhere.Set the temperature display range as you will tomake the target moreprominent.

Full HD recording compatibility with smooth 25HZ, one click to share.




| Specifications          |                                                  |
|-------------------------|--------------------------------------------------|
| Detector                |                                                  |
| Resolution              | 256*192                                          |
| Pixel Size              | 12um                                             |
| NETD                    | ≤50mK                                            |
| Operating Band          | 8~14um                                           |
| Performance             |                                                  |
| Frame Rate              | 25Hz                                             |
| Operating Temperature   | -10°C~55°C                                       |
| Storage Temperature     | -40°C~85°C                                       |
| Power Consumption       | 650mw                                            |
| Processor               | ASIC                                             |
| Lens                    |                                                  |
| Focal length            | 3.2mm                                            |
| Aperture                | F1.1                                             |
| FOV                     | 56.0° (H) x 42.2° (V)                            |
| Focusing Mode           | Non-thermal focusing lens                        |
| Lens                    |                                                  |
| Focal length            | 1280×960                                         |
| Aperture                | 2.81mm                                           |
| FOV                     | F2.2                                             |
| Focusing Mode           | 68.69° (H) x 54.27° (V)                          |
| Temperature Measurement |                                                  |
| Measurement Range       | -20°C~600°C                                      |
| Measuring Error         | ±2°C (±2% of reading, the greater shall prevail) |
| Temperature Correction  | Emissivity, distance, environmental temperature  |


Specifications




Electrical Inspections



HVAC Inspections



Pipeline Inspection



House Inspections

# Fireeye-AI Thermal Camera

The Fireeye-AI series of infrared thermal imaging cameras is a high-performance mobile phone plug-in infrared thermal imaging product developed based on uncooled VOx infrared detectors. It is capable of detecting home pipeline gas leaks, underfloor heating system, insulation conditions of doors and windows, electrical equipment failures, heat sources, automobiles, and also can be used for convenient power system inspections. This product is compatible with mobile devices such as smartphones, tablets, and computers with a USB TYPE-C interface, and when used with professional APPs or PC software, it can achieve real-time infrared image display and functional control.



| Specifications        |                                                    |
|-----------------------|----------------------------------------------------|
| Product Categories    | Fireeye-AI                                         |
| Resolution            | 640*512                                            |
| PixelSize             | 12um                                               |
| Field of View         | 22.733°×18.26°                                     |
| Frame Rate,HZ         | 25Hz                                               |
| NETD                  | ≤50mk@25°C,F1.0                                    |
| MRTD                  | ≤400mk@25°C,F1.0                                   |
| Operation Temperature | -20°C~50°C                                         |
| Power Wastage         | < 1W                                               |
| Weight                | ≤58g                                               |
| Dimension             | 27.5*27.5*46mm                                     |
| Support System        | Android 6.0 and Above                              |
| Image Enhancement     | Digital Detail Enhancement                         |
| Image Correction      | Manual                                             |
| Pseudo-color          | Whitehot / Blackhot / Rainbow/ Iron                |
| Secondary Development | Provide Sdk Development Kit                        |
| Reticle               | Division and Hot Spot Tracking                     |
| Video Saving          | Support Photo Taking and Video Recording Functions |
| Software Updates      | Support Online Software Update Function            |

Specifications



Electrical Inspections



HVAC Inspections



Pipeline Inspection



House Inspections

# Sales Network



Exported to 100+ countries and regions

Asia Europe North America South America Oceania Africa