Thermal Imaging Cameras

Professional Tools
Wuhan Guide Sensmart Tech Co., Ltd., a subsidiary company of Wuhan Guide Infrared Co., Ltd (SZ.002414), was established in November 2016 with registered capital of 60M RMB, focusing on R&D, manufacturing and marketing for commercial infrared imaging products.

Guide Sensmart is a comprehensive infrared imaging solution supplier to various industries with high performance, best service and experience. This capabilities rely on the mother companies self-innovated technologies which spanned from component to system level. At the present, Sensmart’s products are applied in the industrial inspection, security and surveillance, fire fighting and rescue, law enforcement, Medical, industrial automation, smart home, consumer electronics and IoT, etc.

Guide Sensmart is devoted to developing and popularizing new applications of infrared imaging technology. With continuous exploration and innovation, it provides intelligence solutions, expands the channels and dimensions of human perception of the world and opens the intelligent and consumer infrared era.

Key Advantage

- **Technology**: Thermal sensor R&D and production fully localized
- **Quality**: Massive production, quality assurance, long-term stable supply
- **Service**: Focusing on applications for 20 years, provide customers professional service
- **Innovation**: Adhere to innovation based on customer demand and technology leadership

Globally advanced R&D bases for whole infrared industrial chain

The new Guide Infrared Industrial Park locates at the core zone of China Optics Valley and it covers an area of 133,400 ㎡. It has been developed into the biggest infrared thermal industrialized bases in Asia with the world-class scientific research, design and production facility which integrates infrared thermal imager, infrared detector and composed optoelectronic system.
Technical principles of Thermal Camera

What is Infrared?

Any object that has a temperature above absolute zero (-273.15 degrees Celsius or 0 Kelvin) emits radiation. The infrared radiation, together with visible light, ultra-violet light, X-ray, gamma ray, cosmic ray and radio waves form the entire spectrum of electromagnetic. Wavelength of infrared is between 0.76μm to 1000μm, it is a kind of in-visible light that wavelength longer than red light.

Infrared thermal imaging system uses infrared detectors to sense infrared radiation, and convert it to electrical signals which are then amplified, processed to an image displayed.

What is Infrared Camera?

Infrared thermal imaging system uses infrared detectors to sense infrared radiation, and convert it to electrical signals which are then amplified, processed to an image displayed.

Basic Principle

Thermal imaging technology is a kind of passive, non-contact detection and recognizing technology.

Thermography Non-contact temperature measurement and fault detection

Night Vison Easily detect and identify the target in total darkness

Advantages

Simple and Intuitive: Point out the abnormal hot/cold spots and predict the potential failures effectively with IR images supports.

Efficient and time-saving: The general view of IR image will display the temperature’s distribution clearly. In that case, the operator could inspect the large area very fast, the inspection time are reduced to great extents.

Safe and accurate: Temperature reading could be accomplished passively and accurately even when the observing target is far away from the thermographic camera. This non-contact inspection way ensures operator’s safety if in rough working environment.

IR Detector Resolution

The higher the resolution of the detector, the more pixels and temperature points of the thermal image can be measured, and smaller targets can be measured and further distances can be observed.

How to choose a Thermal Camera

1. How Far/How Small

   - The smaller the IFOV is, the smaller object and further distance can be measured

2. How Clear

   - NETD determines the capability to distinguish tiny temp differences

3. How Fast

   - Frame rate determines the speed camera captures the temperature changing and moving objects
Why choose Guide’s Thermal Camera?

High Quality

- **Self-developed High Performance IR Detector**
  The self-developed uncooled infrared focal plane detector of high sensitivity and stable performance, which can quickly capture clear and delicate thermal images.

- **Superior Image Quality**
  Provides four image display modes of IR, Visible, Picture-in-Picture and MIF. The exclusive MIF multi-spectral image fusion patent technology supports the fusion of visible image details on the thermal image, which will enhance your observation experience and work efficiency.

- **Super-resolution reconstruction**
  is to enhance the resolution of the imaging system by a specific algorithm, which can increase the thermal image pixels by 4 times, and achieve high-quality thermal imaging effects.

- **Free and Simple Analysis Software**
  Free PC “IR Analyser” exclusive analysis software for professional analysis and post-processing; remote control and real-time sharing with Wi-Fi connectivity app “Thermography”.

- **Stable Supply with Quality Assurance**
  With completely independent intellectual property rights, we obtained more than 200 domestic and foreign patents. We have strong R&D capacity and stable supply chain of our own, providing high technology IR thermal products with no export license restrictions.

- **Rugged and Reliable Product Design**
  With ergonomic design concept, Guide’s product are easy to use and can also withstand drop, rugged and durable. All products have passed CE/FCC/ROHS certification, and the product quality is guaranteed.

Customize Service

**OEM/ODM**: As the profound thermal imaging technology basis both in development and production, could provide clients in infrared industry OEM/ODM service.

**Solution**: Provide professional, effective, and convenient customize solution based on the client’s requirements.

Pre-sale service

**Consulting**: Provide on-site demo demonstration and answer customer’s questions professionally.

Mid-sale service

**Designs**: provide reasonable and complete solutions based on the requirement and application conditions.

**Technical Instruction**: The professional technical engineer will be specially assigned to give tech supports to the project’s implementation all the time to guarantee the project’s high quality.

After-sale Service

**Quality Warranty**: Two year’s quality warranty to the product, 6 months quality warranty to the accessories. Provide lifetime maintenance.

**Free training**: The calibration service and product training will be provided for free.

**Global network**: The subsidiary company Eunir in Belgium is dedicated to provide much more effective service to the overseas clients.

Marketing and distributing over 70 countries in the world
MobIR Air
Thermal Camera for Smartphone

Transform your smartphone into a thermal camera

<table>
<thead>
<tr>
<th>Name</th>
<th>MobIR Air</th>
</tr>
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<tbody>
<tr>
<td>Resolution</td>
<td>120×90</td>
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<tr>
<td>Pixel size</td>
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<td>Field</td>
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<td>Temperature measurement range</td>
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<td>Color dark</td>
<td>Grey</td>
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</table>

Plug and play easy to use
High frame rate no image stuck
Tiny and convenient
Low running power no battery required

For Traveling
- Find Hidden Camera
  To protect your privacy while traveling

For Home
- HVAC Inspection
- Water Pipe Leak Detection
- Electrical Cabinet Inspection

For Work
- Electrical Board
- Computer Over-heat Detection
- Electronic Product Over-heat Test
T Series  Entry-level Portable Thermal Camera

See the heat of 10,800 pixels in 1 second

T120 Series Entry-level Thermal Image Camera is an affordable temperature measuring tool widely used for building diagnostics, HVAC inspections, electrical system inspections and more. It perfectly overcomes the shortcomings of the single spot infrared thermometers and helps work smarter, safer and faster. Equipped with Guide’s self-developed 120x90 WLP IR modules, T120 series thermal cameras can display radiometric data of 10,800 pixels instantly which helps quickly detect large areas and pinpoint fault spots accurately. It can also easily save images and data, and download fast via USB, removable TF card or WIFI.

- Boot-up in 1 second: Boot up and display fully radiometric image instantly. Full screen max & min temperature alarm
- 2.4 inch Large Display: 240x320 pixel Color LCD
- Good-handle Buttons: Ergonomic design, easy to operate even wear the gloves
- 8-hour Battery Life: Low power consumption, large capacity battery
- 2-hour Quick Charge: USB Type-C Interface, High power quick charge
- IR/Visible/Laser Indicator: Pinpoint targets precisely
- Trigger Button: Trigger button for photo taking
- Rugged Design: 3-meter Drop Test, IP54 Encapsulation
- 2.4 inch IPS technology TFT display
- 2-in-1 Picture-in-picture
- Temperature Range: -20°C~100°C, 100°C~400°C (Auto switching)
- Accuracy: ±2°C or ±2%, whichever is greater
- Measurement Spot: Center spot
- Auto Hot & Cold Spot Tracking: Yes
- Alarm: Full Screen Max & Min Spot Alarm
- Storage Media: TF card (Minimum 16G, up to 32G)
- IR Image Format: Full Radiometric (JPG) (120 x 90)
- Visible Image: Yes, 320 x 240
- USB: TYPE-C, TF Card slot
- Tripod interface: Yes
- WIFI: N/A, Yes, image transmission available
- Battery Type: Rechargeable Li ion battery
- Battery Operating Time: > 8 hours, > 5 hours
- Charging Time: Internal charge, 5-6.5 hours

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<th>T120V</th>
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<td>320×240, Focus-free</td>
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<td>Accuracy</td>
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<td>IR Image Format</td>
<td>Full Radiometric (JPG) (120 x 90)</td>
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<td>Mobile APP</td>
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<td>PC IR Analysis Software</td>
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<td>Rechargeable Li ion battery</td>
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<td>Battery Operating Time</td>
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<td>Charging Time</td>
<td>Internal charge, &gt; 5 hours</td>
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<td>Operating Temperature</td>
<td>-10°C~50°C</td>
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<tr>
<td>Storage Temperature</td>
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<td>Encapsulation</td>
<td>IP54, 2-meter drop test</td>
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<tr>
<td>Certification</td>
<td>CE/ROHS/FCC</td>
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<tr>
<td>Weight</td>
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<td>Size</td>
<td>194mm×61.5mm×76mm</td>
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<td>Standard Accessories</td>
<td>Charger + Adapter, TYPE-C USB cable, Wrist Strap, Quick start Guide, Data Download Card, 16G TF Card</td>
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</table>
**P Series** Pocket-sized Thermal Camera

**Compact Size, Professional Grade**

P120V Pocket-sized Thermal Camera designed for electrical equipment maintenance and building inspection, which can fast detect the potential problems, report repair data and share images by Wi-Fi. It is a truly handy thermal camera that fits in your pockets for fast and accurate thermal inspections anytime. P120V featured with 3.5-inch LCD touchscreen for simple operation, and support picture-in-picture, smooth zoom, max and min temperature alarm, Cloud Service and more.

- **-20°C-400°C wide measurement range**
  Auto switching between -20°C-150°C and 150°C-400°C
- **Reasonable Layout and Good Ergonomic Design**
  No interfere between lens area and grip area
- **3.5” Touchscreen Display**
  High-brightness LCD, 320 x 240 pixels
- **Android Platform, Intelligent Operation**
  User-friendly design based on Android system, which is as simple as using a smartphone.
- **Wi-Fi connectivity , support Cloud Service**
  Wi-Fi connectivity enabled for remote control and instant sharing. And support Cloud Album, you can back up the images to the Cloud in real-time.

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**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>P120V</th>
</tr>
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<tbody>
<tr>
<td><strong>IR image &amp; Optical</strong></td>
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<tr>
<td>IR Resolution</td>
<td>120x90 @17μm</td>
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<tr>
<td>Detector type</td>
<td>VOx/7.5~14μm</td>
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<tr>
<td>Frame Rate</td>
<td>15Hz/9Hz</td>
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<tr>
<td>Thermal Sensitivity / NETD</td>
<td>60 mk</td>
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<tr>
<td>Focal Length</td>
<td>2.28mm/F1.13</td>
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<tr>
<td>Field of view(FOV)</td>
<td>50°×38°</td>
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<tr>
<td>Spatial Resolution(FOV)</td>
<td>7.6mmrad</td>
</tr>
<tr>
<td>Focus</td>
<td>Focus-free</td>
</tr>
</tbody>
</table>

| **Visible Camera** |       |
| Visible Camera Resolution | 320×240, Focus-free |
| Flashlight | Yes ( on/off/flash ) |

| **Image Display** |       |
| Display | 3.5” LCD touchscreen display |
| Display Resolution | 320×240 |
| Image modes | IR, Visible, Picture-in-Picture, MIF |
| Digital zoom | Smooth zoom, up to 8X |

| **Temperature Measurement** |       |
| Measurement Range | -20°C~150°C , 100°C~400°C (Auto switching) |
| Accuracy | ±2°C or ±2%, whichever is greater |
| Measurement Spot | Center spot, can add one removable measurement spot |
| Measurement Area | Can add one removable area measurement box |
| Auto Max & Min Temp Tracking | Full screen auto max & min temp. tracking, Analysis target (area) max & min temp. tracking |
| Full Screen Max & Min Temp. Alarm | Yes |

| **Image Storage** |       |
| Storage Media | 4G Internal memory, at least 500 sets of images |
| IR Image Format | Full Radiometric (.JPG) |
| Visible Image | Yes |

| **Connections & Communications** |       |
| USB | Type-C, for image data transmission with PC |
| WIFI | Yes, Wi-Fi enabled for data transmission |
| Mobile APP | Yes, and support Cloud Service |
| PC IR Analysis Software | Yes |

| **Power system** |       |
| Battery Type | Built-in rechargeable Li-thium battery, non-removable |
| Battery Operating Time | 22 hours (when wifi off) |
| Charging Time | ≤1.5 hours |

| **Environmental parameters** |       |
| Operating Temperature | -10°C~50°C |
| Storage Temperature | -40°C~70°C |
| Encapsulation | IP54, 1-meter drop test |
| Certification | CE, FCC, ROHS |
| Weight | 240g |
| Size | 133mm×87mm×24mm |

| **Standard Accessories** |       |
| Charger + Adapter, TYPE-C USB cable, Wrist Strap, Pouch, Quick start Guide, Data Download Card |
B Series  Tool-like Thermal camera

Rugged and durable, Simple Operation

B series is an efficient, budget-friendly and completely equipped infrared camera. This robust and very handy high-tech system thanks to its intuitively learnable handling and user-friendly single hand operation, which makes it an ideal tool for troubleshooting electrical installations, mechanical components, buildings, process equipment, HVAC/R equipment and others.

- Friendly UI, easy to use without training
- Affordable as entry level diagnostic tool
- Removable Large capacity Li-ion battery, 4 hour working time
- 3.5” large screen with no image cropping, high brightness screen to show image with no detailed information lost even outdoor or in highlight
- Rugged and compact design, metal internal structure
- Standard Micro USB interface for data transmission and charging
- Optional Wi-Fi connection with notebook or mobile

<table>
<thead>
<tr>
<th>Model</th>
<th>B160V</th>
<th>B256V</th>
<th>B320V</th>
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<td>160×120@12μm</td>
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<td>Frame rate</td>
<td>25Hz/9Hz</td>
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<td>NETD</td>
<td>≤50mk</td>
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<td>Focal Length</td>
<td>3.7mm/F1.1</td>
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<td>7mm/F1.1</td>
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<td>Field of view (FOV)</td>
<td>30°×22°</td>
<td>35°×26°</td>
<td>42.5°×32.5°</td>
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<td>Spatial Resolution (IFOV)</td>
<td>3.30mrad</td>
<td>2.36mrad</td>
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<td>Min focus distance</td>
<td>1m</td>
<td>1m</td>
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<tr>
<td>Focus</td>
<td>Focus-free</td>
<td></td>
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</tbody>
</table>

Visible Camera
- Resolution: 640×480, Automatic
- Display: 3.5” highlight LCD screen, 320×240
- Image presentation: IR image, Visible image, MIF,PIP
- Digital zoom: 2X, 4X

Measurement
- Temperature range: -20°C~150°C, 100°C~650°C (Auto switching)
- Accuracy: ±2°C or ±2%, whichever is greater
- Spot meter: Center spot
- Auto tracking: Area, Tmax/Tmin tracking
- Alarm: Area, Tmax/Tmin alarms

Storage
- Storage medium: Removable SD card (16G)
- Image format: JPG with temp info
- Video Streaming: transferred to via USB

Connections & Communications
- Interface: Micro USB (for real-time image/video transmission)
- WiFi: Yes (for data transfer and camera control)

Power System
- Battery: Rechargeable Li-ion battery, 6hr, Automatic shut-down and sleep mode

Environmental Parameters
- Operating temp range: -15°C~50°C
- Storage temp range: -40°C~70°C
- Encapsulation: IP43, 1m drop
- Weight: 740g (battery included)
- Size: 258mm×98mm×90mm

Standard Accessories
- Li-ion battery, Power supply adapter (5V/2A), Adapter plug, Wrist strap, USB cable, Quick Start Guide, Data Download Card, SD card (16GB)

Optional Accessories
- Li-ion Battery, Camera carrying pouch, Battery charger
D Series Intelligent Thermal Camera
Intelligent Operation Affordable Price

D Series intelligent thermal camera is simple, compact and ergonomic. It equipped with 4-inch high-brightness touchscreen, Android operating system, user-friendly UI for easy operation. And every step has professional tips, so that the first user can become an expert quickly. With high IR resolution and various powerful functions, D series is the ideal thermal inspection tool for power inspection, equipment maintenance and building diagnostic applications.

- 4" high light touch screen, all operation can be completed on the touch screen
- You can choose the proper lens for different occasions
- Built-in illuminator, take visible photos in the low lighting environment
- Removable SD card, Up to 32G storage capacity
- Wi-Fi communication, share IR images and findings immediately
- Connected with mobile terminal to take IR photo, to achieve multi screen control

Mechanical maintenance
Building diagnostic
Telecom equipment inspection
Electrical equipment inspection

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<tr>
<th>Model</th>
<th>D195F</th>
<th>D384F</th>
<th>D384M</th>
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<td>N/A</td>
<td>19mm/F1.0 / 14.4°x10.8°</td>
<td>40mm/F1.2 / 13.7°x10.3°</td>
</tr>
<tr>
<td>High temp</td>
<td>N/A</td>
<td>N/A</td>
<td>600°C-1500°C</td>
<td>600°C-1500°C</td>
</tr>
</tbody>
</table>

Visual Camera
Resolution: 5MP/640×480, infrared, Audio signal included
Image Presentation
Display: 4" high light LCD touch screen, 480×800, 24 bits
Image modes: IR image, Visual image M/F, PIP
Color Palettes: 8 White Hot, Fulgurite, Iron Red, Hot Iron, Medical, Arctic, Rainbow 1, Rainbow 2
Digital zoom: 1:1-4
Super-resolution: N/A, Yes, 768×576, N/A, Yes, 768×576
Level Span: Auto, Semi-automatic, Manual
Panorama image mosaic: N/A, Yes

Measurement
Temperature range: -20°C~350°C
Accuracy: ±2°C or ±2% of reading for ambient temperature 15°C ±35°C and object temperature above 0°C
Measurement Area (IR/PIP): 5.5 x 5.5 deg; 5.5 Arx
Auto Max & Min Temp Tracking (IR/PIP)
1. Full screen max temp, min temp, max+min temp, max+min+average temp tracking
2. Analysis object max temp, min temp, max+min temp, max+min+average temp, average temp tracking
Camera Alarm: Max temp alarm, Min temp alarm
Storage
Image storage: In camera and TF card, JPG with temp info
Video format without temp info: H.264 with frame rate 25Hz (audio signal included)
Video format with temp info: H.264 with frame rate 25Hz (audio signal excluded)
Video Streaming: Yes, transferred to PC or mobile via USB or WiFi

Connections & Communications
Data communication Interface: MICRO USB 2.0, MICRO HDMI, Power(12V), TF card/Standard 16G, up to 32G, Wi-Fi/Laser
Bluetooth: N/A

Power system
Battery type: Lithium battery, 9V, in camera; Lithium battery, 18V, in dual
Battery capacity: 700mAh, 735mAh, 840mAh, 940mAh, 720mAh
Power consumption: Operating: -10°C-50°C, Stand-by: -40°C-70°C
Encapsulation: IP54
Certification: CE, FCC, ROHS
Weight: 720g, 735g, 840g, 940g, 720g
Dimensions (mm): 274×177×78, 274×177×78, 224×106×78, 274×110×78, 274×91×78
Standard accessories: Lithium battery, Battery charger, Tool bag, Handle, Extension cord, Software, User Manual, Data Download Card, Protective case, Carrying case
Optional accessories: Micro USB cable, HDMI cable, Quick Start Guide, Tripod mount interface, Carrying case, Bluetooth accessories, Extended lens
C Series High Performance Thermal Camera

Won two different Industrial Design Awards

C series thermal camera is the high performance inspection device superior to any other thermal imaging products in its class. High IR resolution up to 640x480 allows the electrical and mechanical users to pinpoint any overheating quickly and take accurate temperature measurement intuitively on a 5-inch 720P high-brightness LCD display. The ergonomic rotating LCD and lens design makes it comfortable to aim up at any overhead components. Based on an open Android operating system design, it works not only as a thermal camera but also a versatile mobile infrared thermal imaging application platform.

- With high IR resolution up to 640x480, C series has superior image quality and clarity for greater accuracy inspection.
- With a rotatable design, the display rotates 270° and the lens rotates 70° upwards for easy viewing angle.
- Android based operation system with open platform for various mobile APP developments and convenient program updating.
- Powerful onboard analysis and reporting capabilities.
- Multiple image presentation including IR, visible, PIP and MIF.
- Wi-Fi connectivity enable for data transmission and remote control.
- Wide measurement range up to 2000°C

<table>
<thead>
<tr>
<th>Model</th>
<th>C400M</th>
<th>C400</th>
<th>C440</th>
<th>C460</th>
<th>C460P</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR Imaging Performance</td>
<td>384, 256@25μm</td>
<td>768, 256@25μm</td>
<td>640, 480@17μm</td>
<td>640, 480@17μm</td>
<td>640, 480@17μm</td>
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<tr>
<td>Detector type</td>
<td>VOx</td>
<td>VOx</td>
<td>VOx</td>
<td>VOx</td>
<td>FOV</td>
</tr>
<tr>
<td>Frame rate</td>
<td>20Hz/90Hz</td>
<td>20Hz/90Hz</td>
<td>20Hz/90Hz</td>
<td>20Hz/90Hz</td>
<td>20Hz/90Hz</td>
</tr>
<tr>
<td>NETD</td>
<td>40mk</td>
<td>45mk</td>
<td>40mk</td>
<td>45mk</td>
<td>50mk</td>
</tr>
<tr>
<td>Focal length</td>
<td>25mm/F:1.0</td>
<td>25mm/F:1.0</td>
<td>25mm/F:1.0</td>
<td>25mm/F:1.0</td>
<td>25mm/F:1.0</td>
</tr>
<tr>
<td>Field of view(FOV)</td>
<td>21.7°×16.4°</td>
<td>24.6°×18.5°</td>
<td>27.0°×21.6°</td>
<td>30.5°×23.8°</td>
<td>33.9°×28.0°</td>
</tr>
<tr>
<td>Spatial Resolution(FOV)</td>
<td>0.59mm/°</td>
<td>0.59mm/°</td>
<td>0.59mm/°</td>
<td>0.59mm/°</td>
<td>0.59mm/°</td>
</tr>
<tr>
<td>Min focus distance</td>
<td>0.4m</td>
<td>0.4m</td>
<td>0.3m</td>
<td>0.3m</td>
<td>0.3m</td>
</tr>
<tr>
<td>Focus</td>
<td>Motor Drive/Auto</td>
<td>Motor Drive/Auto</td>
<td>Motor Drive/Auto</td>
<td>Motor Drive/Auto</td>
<td>Motor Drive/Auto</td>
</tr>
</tbody>
</table>

**Optional accessories:**
- Ion battery
- Power supply adapter
- Adapter plug (5 pcs)
- Shoulder strap
- USB cable
- HDMI cable
- Network cable
- Quick Start Guide
- User Manual
- Data Download Card
- SD card (16G)
- Hard transport case

**Standard accessories:**
- Li-ion battery
- Battery charger
- Bluetooth earphone
- Extended lens
- Lens bag

Electric Power Inspection
Science education Building
diagnosis
HealthCare
## Handheld Thermal Cameras Selection Guide

### T Series
- **Model**: T120, T120V
- **IR Resolution**: 120x90
- **NETD**: 60mk
- **FOV**: 50° x 38°
- **Standard Lens**: 2.28mm
- **Wide angle**: N/A
- **Macro lens**: N/A
- **High temp**: N/A
- **Focus**: Focus-free
- **Visible Camera**: N/A
- **Display**: 2.4 inch IPS technology TFT display, 320 x 240
- **Image Model**: IR, Visible, PIP
- **Super-resolution**: N/A
- **Level span**: N/A
- **Panoramic Mosaic**: N/A
- **Temperature Range**: -20°C to 150°C, 100°C to 400°C (Auto switching)
- **Accuracy**: ±2°C or ±2%, whichever is greater (target temp ≥0°C, ambient temp is 15°C ~ 30°C)
- **Measurement Spot**: Center spot
- **Measurement Line**: N/A
- **Storage**: TF card (Standard 16G), up to 32G
- **Laser**: YES
- **WiFi**: YES
- **Bluetooth**: N/A

### P Series
- **Model**: P120V
- **IR Resolution**: 120x90
- **NETD**: 60mk
- **FOV**: 50° x 38°
- **Standard Lens**: 2.28mm
- **Wide angle**: N/A
- **Macro lens**: N/A
- **High temp**: N/A
- **Focus**: Focus-free
- **Visible Camera**: N/A
- **Display**: 3.5” LCD touch screen, 320 x 240
- **Image Model**: IR, Visible, PIP, MIF
- **Super-resolution**: N/A
- **Level span**: N/A
- **Panoramic Mosaic**: N/A
- **Temperature Range**: -20°C to 150°C, 100°C to 400°C (Auto switching)
- **Accuracy**: ±2°C or ±2%, whichever is greater (target temp ≥0°C, ambient temp is 15°C ~ 30°C)
- **Measurement Spot**: Center spot
- **Measurement Line**: N/A
- **Storage**: Removable SD card (16G)
- **Laser**: YES
- **WiFi**: YES
- **Bluetooth**: N/A

### B Series
- **Model**: B160V
- **IR Resolution**: 160x120
- **NETD**: ≤50mk
- **FOV**: 30° x 22°
- **Standard Lens**: 3.7mm
- **Wide angle**: N/A
- **Macro lens**: N/A
- **Focus**: YES
- **Visible Camera**: N/A
- **Display**: Highlight LCD screen, 320 x 240
- **Image Model**: IR, Visible, PIP, MIF
- **Super-resolution**: N/A
- **Level span**: N/A
- **Panoramic Mosaic**: N/A
- **Temperature Range**: -20°C to 650°C (Auto switching)
- **Accuracy**: ±2°C or ±2%, whichever is greater (target temp ≥0°C, ambient temp is 15°C ~ 30°C)
- **Measurement Spot**: Center spot
- **Measurement Line**: N/A
- **Storage**: TF card (Standard 16G, up to 32G)
- **Laser**: YES
- **WiFi**: YES
- **Bluetooth**: N/A

### D Series
- **Model**: D192F
- **IR Resolution**: 192x144
- **NETD**: 40mk
- **FOV**: 35° x 27°
- **Standard Lens**: 5mm
- **Wide angle**: N/A
- **Macro lens**: N/A
- **Focus**: YES
- **Visible Camera**: N/A
- **Display**: Highlight LCD touch screen, 1280 x 720
- **Image Model**: IR, Visible, PIP, MIF
- **Super-resolution**: N/A
- **Level span**: N/A
- **Panoramic Mosaic**: N/A
- **Temperature Range**: -20°C to 150°C, 100°C to 600°C (High temp lens is optional)
- **Accuracy**: ±3°C ~ ±2%, whichever is greater (target temp ≥0°C, ambient temp is 15°C ~ 30°C)
- **Measurement Spot**: Center spot
- **Measurement Line**: N/A
- **Storage**: TF card (16G)
- **Laser**: YES
- **WiFi**: YES
- **Bluetooth**: N/A

### C Series
- **Model**: C640P
- **IR Resolution**: 640 x 480
- **NETD**: 40mk
- **FOV**: 5mm
- **Standard Lens**: N/A
- **Wide angle**: N/A
- **Focus**: YES
- **Visible Camera**: N/A
- **Display**: Highlight LCD touch screen, 1280 x 720
- **Image Model**: IR, Visible, PIP, MIF
- **Super-resolution**: N/A
- **Level span**: N/A
- **Panoramic Mosaic**: N/A
- **Temperature Range**: -20°C to 150°C, 100°C to 800°C (High temp lens is optional)
- **Accuracy**: ±3°C ~ ±2%, whichever is greater (target temp ≥0°C, ambient temp is 15°C ~ 30°C)
- **Measurement Spot**: Center spot
- **Measurement Line**: N/A
- **Storage**: TF card (16G)
- **Laser**: YES
- **WiFi**: YES
- **Bluetooth**: N/A
PC Analysis Software
Professional & Full-featured

PC "IR Analyser" exclusive analysis software creates comprehensive analysis and processing of the infrared thermal image taken by the Guide Thermal Imaging Cameras, and realize unified management of data information. IR Analyser featured with user-friendly UI, powerful functions, and simplified operation and creates analysis reports automatically.

Various images/videos resources
- WiFi SD card import
- FTP download
- USB transfer from camera internal storage or any other mobile device.

Video Processing
- Live video stream or av/irv video replay
- Max/Min temperature tracking
- Add or delete analysis objects on video

Image Analysis
- Image enhancement such as image fusion, palette/level span adjustment etc
- Various analysis objects add-ons such as spots, lines, areas, delta-T etc
- 3D image display, histogram/temp profile presentation, image geographic info display
- Add text notes and voice notes

Report generating in PDF or WORD format
- A variety of professional report format pre-defined
- Edit freely in the pre-defined report format
- Customize your own preferred report format
- Submit the report to accomplish your inspection work

Preference settings
- Multi-languages selection
- Temp/distance unit setting
- File folder routine etc

Mobile APP
Smart & Convenient

With Wi-Fi connectivity, mobile APP “Thermography” let you import the images and videos from the cameras to your mobile devices (smartphones or tablets) for processing, analyzing, generating reports and sharing with others. It also enables remote control to compete the basic operations of the thermal camera on the mobile app, such as auto focus, digital zoom, shutter setting, image mode switching, color palettes switching and more.

Real-time Video Preview
Stream live video from the thermal camera, and realize full screen max and min temperature tracking.

Remote Control
Control the thermal camera by mobile APP, such as adding analysis objects, taking photos, recordings, etc., can save pictures and videos to mobile albums.

Image Analysis and Editing
Analyze thermal images, add analysis objects, modify image information, add notes (include the text notes), photo notes, voice notes, and graffiti notes.

Report generation and sharing
Support generating PDF reports, sending emails, sharing and report printing for thermal images, etc.
Applications

- Power industry
- Environmental protection
- Industrial automation
- Inspection and quarantine
- Building diagnostic
- Petrochemical industry
- Consumer electronics
- Smart home
- Medical