



C Series

High Performance Thermographic IR Camera



Introduce

C series thermographic camera is an intelligent inspection device superior to any other thermal imaging products in its class. High resolution allows the electrical and mechanical users to pinpoint any overheating quickly and take accurate temperature measurement intuitively on a 5-inch 720P 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 mobile terminal for versat.

Features and Benefits

- Rotating LCD display up 270°C for easy viewing angle
- Rotating lens detents up to 70°C for easy viewing angle
- Android based operation system with open platform for various APP developments and convenient program updating
- Powerful onboard analysis and reporting capabilities
- Multiple image presentation including IR, visible, PIP and MIF
- Wi-Fi data transfer
- Optional high temperature range measuring up to 2000°C
- Targeting electrical and industrial applications

Application Electrical diagnosis / R&D / Science education / Building diagnosis/HealthCare

Specifications

| Model | C400 | C640 | C640P |
|---|---|-------------------------------------|-------------------|
| IR Imaging Performance | | | |
| IR resolution | 384×288@25μm | 640×480@17μm | |
| Detector type | VOx/7.5~14μm | VOx/7.5~14μm | |
| Frame rate | 25Hz/9Hz | | |
| NETD | 45mk | 40mk | 30mk |
| Focal length | 25mm/F1.0 | | |
| Field of view(FOV) | 21.7°×16.4° | 24.6°×18.5° | |
| Spatial Resolution(IFOV) | 0.99mrad | 0.67mrad | |
| Min focus distance | 0.4m | 0.3m | |
| Focus | Motor-drive/Auto | | |
| Optional lens (* Focal length/ FOV / IFOV / Min focus distance # FOV / IFOV / Working distance ® Temp Range) | | | |
| Wide angle* | 13mm/F1.1/40.5°×31.0°/1.84mrad/0.15m | 13mm/F1.1/45.4°×34.9°/1.24mrad/0.1m | |
| Telephoto* | 55mm/F1.1/10.0°×7.5°/0.45mrad/2m | 55mm/F1.1/11.3°×8.5°/0.31mrad/1.5m | |
| Ultra Telephoto* | 85mm/F1.2/6.7°×5.1°/0.29mrad/4m | 85mm/F1.2/7.3°×5.5°/0.2mrad/4m | |
| Macro lens# | 8°×6°/37.5um/67mm | 14°×11°/37.5um/67mm | |
| High temp® | -20°C~150°C , 150°C~800°C , 800°C~2000°C | | |
| Image Presentation | | | |
| LCD Display | 5",1280×720 High Light Touch Screen | | |
| Viewfinder | 1280×960 LCOS Screen | | |
| Brightness Contrast | Auto/Manual/Fixed | | |
| Image Mode | IR image/Visual image/PIP/MIF | | |
| Palette | 8 | 10 | |
| Digital Zoom | 1.1~4x continuously | 1.1~10x continuously | |
| Super-resolution | 768 x 576 | 1280 x 960 | |
| level span | Auto、Semi-automatic、Manual | | |
| Panorama image mosaic | Yes | N/A | Yes |
| Measurement | | | |
| Measurement Temp Range | Filter 1:-20°C~150°C; Filter 2:150°C~800°C; Optional 2000°C | | |
| Accuracy | ±2°C~±2% | Filter 1:±1°C~±1% | Filter 2:±2°C~±2% |
| Spot Temp (IR/PIP) | 5 x spots | 8 x spots | 10 x spots |
| Line Temp (IR/PIP) | 5 x lines | 8 x lines | 10 x lines |
| Area Temp (IR/PIP) | 5 x areas | 8 x areas | 10 x areas |
| Analysis Info Storage | Saved with image(spot,line,areas) | | |
| 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 | | |
| Isotherm | Upward/Downward | Upward/Downward and Internal | |
| Temperature Alarm | Visual and Voice | | |
| Storage | | | |
| Image Format | JPG or with raw data | | |
| Image Internal Storage | SD 16G (up to 32G) | | |
| Report Creation | PDF format,Wi-Fi print | | |
| Video Format | H.264(with temperature information) | | |
| Video Internal Storage | Manual | Internal storage | |
| Dual-path Recording | N/A | Yes | |
| Other | | | |
| Hardware | 5MP Visual camera, Illuminator, laser, Wi-Fi, Microphone(Volume adjustable) , Speaker(Volume adjustable) , Digital compass, GPS, Light sensor, Bluetooth(Only C640 P) | | |
| Interface | Micro USB 2.0, SD card, Gigabit Ethernet, Tripod, Mini HDMI | | |
| Battery | Rechargeable Li-ion Battery, Operating more than 4 hours , Sleeping mode | | |
| Working Temperature | - 15°C~50°C | | |
| Storage Temperature | - 40°C~70°C | | |
| Encapsulation | IP54 | | |
| Weight | 1350g | | |
| Size | 206mm×145mm×135mm | | |
| Standard Accessories | Li-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 | | |
| Optional Accessories | Li-ion battery, Pouch, Battery charger, Bluetooth earphone, Extended lens, Lens bag | | |

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