

High Frame Rate Superior Imaging

PT II Series HD High-Performance Thermal Camera

The PT II series Flagship Edition Megapixel Thermal Imager incorporates a new generation of self-developed uncooled infrared focal plane detector, achieving a resolution of up to 1280×1024. Its exclusive A/M-Focus manual/automatic hybrid focusing system delivers superior image quality and enhanced operational flexibility. The PT II Series has undergone comprehensive upgrades in hardware configuration, software systems, and user experience, aiming to establish a new industry benchmark.



1-lens TwinView DFOV

IR single-lens dual-field design: 1s wide/narrow switch, no lens change for long-range inspection and close-range measurement, efficient for complex scenarios.



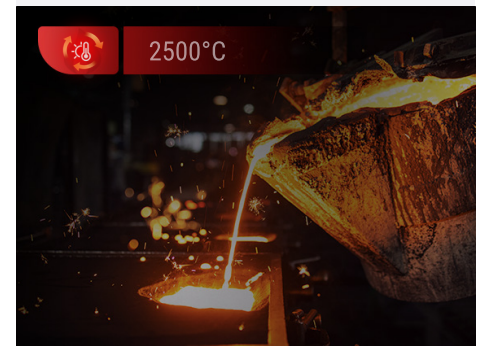
Charges to 90% in 1 Hour

Equipped with advanced fast charging tech, it takes just 1 hour to charge the battery to 90%, significantly cutting waiting time and meeting urgent - use needs efficiently.



Up to 2500°C Temperature Range

Up to 2500°C for metallurgy/furnace applications, preventing overheating with reliable protection.



50Hz Frame Rate

50Hz infrared frame rate enables real-time dynamic imaging, smoothly capturing rapid temperature changes; ideal for industrial inspection and scientific analysis, ensuring precise response and data synchronization.

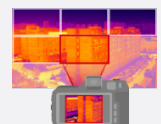


5 Fast Focus Modes

Supporting 5 focusing modes and a quick-focus system, it presents clearer images, saving time and enabling more precise temperature measurements.



Super-resolution



PerIRVision panoramic stitching



5.5-inch Multi-touch Screen

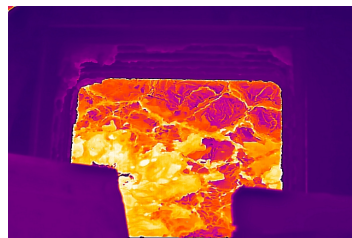


OTA Upgrade

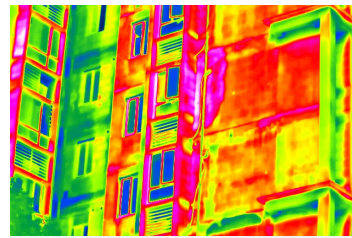
Applications



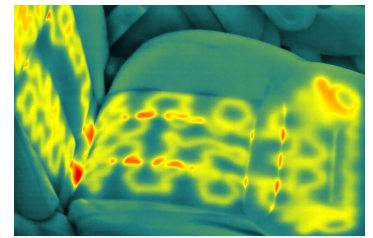
Power Industry



Industrial Inspection



Construction Industry

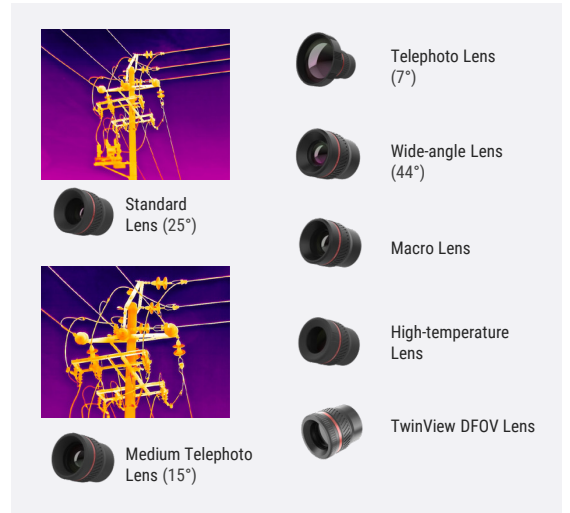


Scientific Analysis

Standard Package



ADD-ON LENSES



Specifications

| Model | | PT870S |
|--------------------------|--------------------------|---|
| Imaging and Optics | IR Resolution | 1280×1024 |
| | Super resolution | 2560×2048 |
| | NETD | ≤15mK |
| | Image Frequency | 50Hz/9Hz |
| | Field of View (FOV) | 45°, 25°, 15°, 7°, TwinView DFOV (25°+15° / 25°+45°), High-temperature, 3X Macro |
| | Spatial Resolution(IFOV) | 45°:19.5mm; 25°:35mm; 15°:58mm; 7°:133mm |
| Image Display | Digital Camera | 8MP + 16MP, Autofocus |
| | Display | 1920×1080 Resolution, 5.5" LCD Screen |
| Measurement and Analysis | Object Temperature Range | -40°C to 150°C, 0°C to 800°C. Expandable: 400°C to 2500°C. |
| | Accuracy | ±1°C or ±1%, whichever is greater (with temperature limitation)±2°C or ±2%, whichever is greater (others) |
| Weight | Image and Video Formats | Radiometric JPEG, MP4 Video, Radiometric Video |
| | Wi-Fi/GPS & Compass | 802.11 b/g/n (2.4 GHz and 5 GHz)/Yes |
| | HDMI Interface | Yes |
| | Battery Operating Time | 3.5 hours |
| | Weight | 1.84kg (with standard lens and battery) |

Software



PC Software – ThermoTools
(Windows)



Mobile App –FocusIR
(Android/iOS)