

PT II SERIES

HD High-Performance Thermal Camera

PT II series Flagship Edition Megapixel Thermal Imager of Guide Sensmart 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 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.



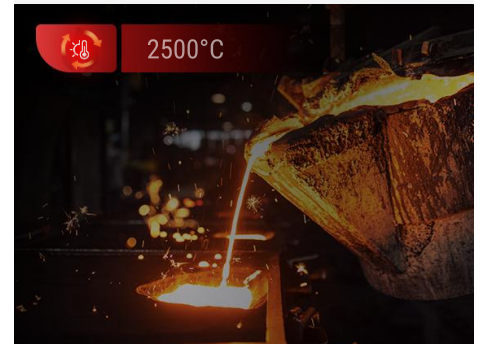
Charges to 90% in 1 Hour

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.

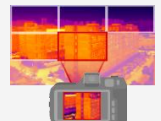


5 Fast Focus Modes

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

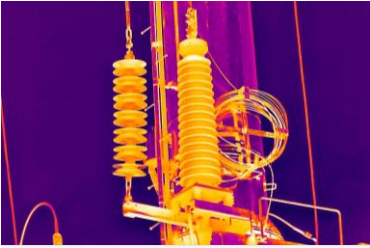


5.5-inch Multi-touch Screen

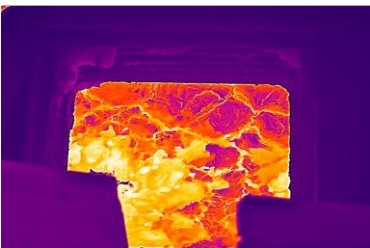


OTA Upgrade

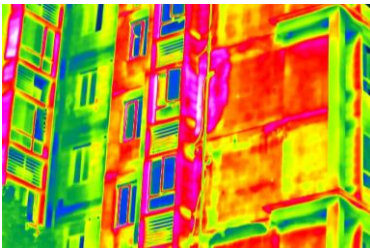
Applications



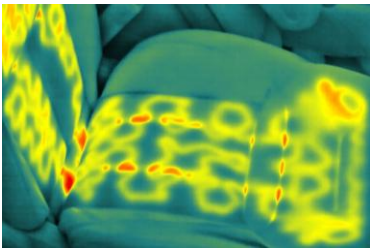
Power Industry



Industrial Inspection



Construction Industry



Scientific Analysis

Standard Package



Device



Lithium battery×2



Cradle charger



Adapter plug
(4 pcs)



Cradle charger



SD Card (128GB)



USB-A to USB-C
Cable



USB-C to USB-C
Cable



Micro HDMI to HDMI
Cable



Docking Station



Shoulder Strap



Wrist Strap



Portable package



Safety Box

- Quick Start Guide
- Inspection Report
- Calibration Certificate
- Warranty Card

ADD-ON LENSES



Wide-angle Lens



Telephoto Lens



Standard Lens



Macro Lens



TwinView DFOV Lens (Standard +
Medium Telephoto)



TwinView DFOV Lens (Standard +
Wide-angle)



Medium Telephoto Lens

Specifications

Model		PT450	PT650	PT850	PT870
Imaging and Optics	IR Resolution	480*360	640*512	1024*768	1280*1024
	SuperIR	960*720	1280*1024	2048*1536	2560*2048
	NETD	≤30mK		≤25mK	
	Image Frequency	50Hz/9Hz	50Hz/9Hz	50Hz/9Hz	50Hz/9Hz
	Field of View (FOV)	45°、25°、15°、7°、3X Macro、High-temperature Lens、TwinView DFOV Lens (25°+15°、25°+45°)			
	Spatial Resolution(IFOV)	45°:1.66mrad、 25°:0.91mrad、 15°:0.55mrad、 7°:0.25mrad	45°:1.23mrad、 25°:0.68mrad、 15°:0.41mrad、 7°:0.19mrad	45°:0.77mrad、 25°:0.43mrad、 15°:0.26mrad、 7°:0.11mrad	45°:0.62mrad、 25°:0.34mrad、 15°:0.21mrad、 7°:0.09mrad
Image Display	Digital Camera	8MP + 13MP, Autofocus		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 650°C. Expandable: 400°C to 2500°C.		-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)			
General	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	4.5H	4H	4H	3.5H
	Battery Type& Charging Time	Fast-charging, Lithium-ion battery, Charges to 90% in 1 hour(@ 20~45°C)			

Software



PC Software – ThermoTools
(Windows)



Mobile App –FocusIR
(Android/iOS)

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors. All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.