

# 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.



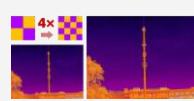
### 50Hz Frame Rate

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.

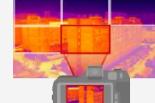


### 5 Fast Focus Modes

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

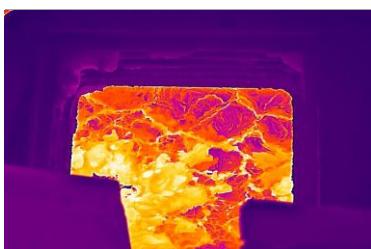


### OTA Upgrade

# Applications



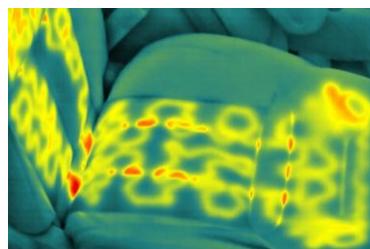
Power Industry



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
				<ul style="list-style-type: none"> <li>Quick Start Guide</li> <li>Inspection Report</li> <li>Calibration Certificate</li> <li>Warranty Card</li> </ul>
Shoulder Strap	Wrist Strap	Portable package	Safety Box	

## ADD-ON LENSES

	Wide-angle Lens
	Telephoto Lens
	Standard Lens
	Macro Lens
	TwinView DFOV Lens (Standard + Medium Telephoto)
	TwinView DFOV Lens (Standard + Wide-angle)

## Specifications

Model	PT870S	
Imaging and Optics	IR Resolution	1280*1024
	SuperIR	2560*2048
	NETD	≤15mK
	Image Frequency	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°:0.62mrad、 25°:0.34mrad、 15°:0.21mrad、 7°:0.09mrad
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)
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	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)