



The World's First Portable **Thermal Camera with MP-level Infrared Resolution**

PT Series HD High-Performance Thermal Camera

Introduction

PT Series is the world's first portable thermal camera with MP-level Infrared Resolution. Equipped with the self-developed 1280×1024 IR detector, this camera has the A/M-Focus manual and auto focusing system to provide much more crisp images. Advanced hardware, software and exceptional experience ensure it is the flagship in this industry.

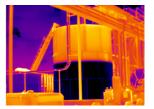
Features

- Up to 1280x1024 IR resolution
- ContFocus intelligent and continuous autofocus model
- An optional temperature range to 2500°C for more applications
- Observation of 36µm objects through a macro lens
- IR video with temperature information at 20 Hz
- PerIRVision image stitching technology

Applications



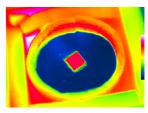
Power



Oil and Gas Maintenance



Building Inspections



Research and Development

Specifications

Product model	PT650	PT850	PT870		
Imaging and optics	11030	11030	11070		
Detector type		V0x, 7.5 to 14μm			
Infrared resolution	640×512@12μm	1024×768@12µm	1280×1024@12μm		
Super resolution	Yes, Upgrade to 1280×1024	Yes, Upgrade to 2048×1536	Yes, Upgrade to 2560×2048		
NETD	30mK	, 13	imK		
Frame rate	John	30Hz/ 9Hz	mix		
Focal length	17mm	28mm	35mm		
Field of view	1711111	25°×19°	3311111		
IFOV	0.71mrad	0.43mrad	0.34mrad		
Min. object distance	0.7 milad 0.34 milad 0.34 milad 0.34 milad				
D:S	1408:1	2325:1	2941:1		
Focusing mode		ual / Automatic / Touch autofocus / Continuous aut			
Digital zoom	1.1x to 40x		to 50x		
Measurement and analys		1.11	10 30%		
Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C, Optional 400°C to 2500°C (High temperature lens is required)	Support auto-switching: -40°C to 150°C, 0°C to 800°C, Optional 400°C to 2500°C (High temperature lens is required)			
Measurement accuracy		$\pm 1^{\circ}$ C or $\pm 1\%$, whichever is greater			
Analyzed target	30 in total (Spot/ Line/ Area)	35 in total (Spot/ Line/ Area)			
Alarm	Full screen temperature threshold alarm (image, voice and flash)				
Parameter settings	Emissivity, reflected temperature, target distance, humidity, atmospheric temperature, optical transmittance, dew point				
Others	Isothermals, Smart Stroke, Intelligently calculate the area				
Image display					
Display screen	5", 1920×1080 pixel touchscreen LCD				
Eyepiece	1920×1, 080 OLED screen				
Image mode	IR, VIS, MIF, PIP				
Color palettes	15: White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, Tint, Black Hot, Blue Hot, Sepia, Green Hot, Ice and Fire, Amber, Customized				
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual				
Digital camera	Dual visible light, up to 13 MP	Dual visible lig	ht, up to 16 MP		
Functions					
Laser		Laser (Indication, Ranging 0.1m to 35m)			
Recording function	Photo (image stitching) and Video (infrared & visible light)				
Cloud Services	Available				
Others	Customized physical button, Intelligent diagnosis, NFC connection, OTA update				
Storage and transmissio	n				
Storage media	Built-in (64 GB) and external SD card (128 GB and up to 256 GB)				
Image storage	JPG with temp info				
Video storage	MP4 format (without temp info) can be used to record audio synchronously; Irgd (with temp info), up to 20 Hz (optional) for temperature analysis				
	Type-C, DC (12V) , SD card slot, Micro HDMI, UNC ¼"-20 (Tripod mounting)				
External interface	Yes, it can be connected to the mobile terminal for image and real-time video transmission				
WIFI	•				
Cellular network	5G module (optional) Bluetooth 5.0, support image transmission (only for Android)				
Bluetooth	Biue	etooth 5.0, support image transmission (only for Am	uroid)		
Power system		1912 1 1 11 1 0			
Battery type	Lithium-ion rechargeable battery				
Operating time	4 hours				
Charging mode	The device can be charged through desktop charger after shutdown.				
Charging time		of full charge in 2.5 hours, revealed by the status s	creen		
Environmental paramete	rs T				
Working temperature		-20°C to 50°C			
IP rating	IP54				
Certification	CE, FCC, ROHS, KCC, A	natel, Damp heat test, Vibration test, Shock test, Im	pact test, UN38.3, MSDS		
Physical parameters					
	Illuminator, Microphone, Speaker, Electronic Compass, GPS, Status screen				
Hardware	1.86kg (with battery)				
Hardware Weight		3 (7/	191×171×118mm		
Weight					
	P		id)		
Weight Size	A device (with lens), Lens front and back cover, L Micro HDMI cable, Type C to GE cable, SD card (1	191×171×118mm	adapter, Adapter plug (5 pcs) , TYPE-C USB cable, Safety box, Packaging list, Quick Start Guide, Data		