

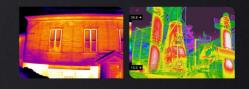
PS Series High Performance Thermal Camera

Built For The Experts



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The Raytek Series high-performance thermal camera is designed to make the inspection, maintenance and troubleshooting work easier, faster and more accurate. It adopts a new generation of uncooled IR focal-plane detectors, which provides sharper thermal images and higher measurement accuracy. With its rotatable lens and screen structure, up to 13 million pixels visible light camera module, high precision rangefinder, and supplemented by some professional functions such as AI recognition naming, intelligent area measurement, flexible emissivity settings by areas, super-resolution reconstruction, strive to meet the needs of every thermography experts.



Application

- Electric Utilities Inspections
- Oil and Gas Maintenance
- Building Inspections
- Research and Development

Features and Benefits

- With a new generation of focus motor and professional laser rangefinder, 1-touch autofocus in 0.4 second
- o Upgraded visible light camera, flagship model up to 13 million pixels, supports infrared and visual imaging dual-channel video recording
- o Support Al voice recognition, text photo recognition and typing, convenient for customizing the image name
- o Optional lenses are available such as macro/wide-angle/Medium telephoto lens/ telephoto lens, support automatic calibration, easy to replace
- Support cloud services, upload local images to the cloud at any time, for remote analysis and problem feedback
- -40°C ~ 2000°C ultra-wide temperature range, support automatic switching, suitable for more application scenarios

Raytek Performance Series(PS) Specifications



MODEL	PS 480	PS 640	PS 640N	PS 1024	
IR Imaging Performance					
Detector type	384×288@17μm, VOx)17μm, VOx	1024×768@12µm, VOx	
Spectral			14μm		
Frame rate		30Hz/9Hz		25Hz/9Hz	
NETD	45mk(Optional 30mk)	40mk(Optional 30mk)	30mk	30mk	
enses Options				<u></u>	
Focal length	15mm		mm	28mm	
FOV		25°	×19°		
IFOV	1.13mrad	0.68	mrad	0.43mrad	
Min focus distance	0.15m	0.	3m	0.3m	
D:S	885:1	1470:1 2325:1			
Focus	1-touch fast autofocus, support electric/manual focus switch				
Lens Identification	Automa	tically identify and calibrate	the lens without manual	switching	
mage Presentation					
Visual Image	8 million pixels, autofocus(O)	otional 13 million pixles)	13 million	n pixels, autofocus	
LCD Display		<u> </u>	Light Touch Screen		
Viewfinder			.COS Screen		
Image Mode			l image/PIP/MIF		
Digital Zoom	1×~10× continuously	iik iiriage, visaa	1×~35× continuousl	\/	
	8 Color Palettes, and	10 Color Palettes, and		<i>'</i>	
Color Palettes	customizable	customizable	12 Color Pale	ttes, and customizable	
Super-resolution	4× Super-resolution, 768x576		ution, 1280x960	4× Super-resolution,	
· .	To Super resolution, 700x576	4^ Super 1650	ution, 1200x700	2048x1536	
unctions					
Al Voice Naming	Support Al voice naming, A	Al text recognition naming (text can be recognized by	taking pictures), and typing	
Professional Laser	The distance between the therr	mal camera and target is a	itomatically measured an	d displayed on the thermal ima	
Rangefinder				a displayed on the thermal line	
emperature Measurement for Areas	ļ .	Automatically measure the	area of the boxes and circ	eles	
Smart Stroke	Automatically outline the tar	get contour by setting the	area and tolerance (color o	difference between two pixels)	
Measurement Corrections					
Level Span	Support emissivity correction, atmospheric transmittance correction and optical transmittance correction Automatic, semi-automatic, manual				
Panorama Image Mosaic	N/A	natornatio, serni c	YES		
Cloud Service	14/74	Support local and cloud d		1	
Measurement		Support local and cloud a	ata apioaa aria aowiiioac	•	
Temp Measurement Range	Support auto-switching, Filter 1:	-40°C~150°C· 2·100°C~800°	C: Optional 700°C~2000°	C(High temperature lens require	
Accuracy	±2°C~±2%, whiche			whichever is greater	
Temp Measurement Area					
(IR/PIP)	spot×12, line×12, area×12	spot×16, line×16, area× 16	spot×20, line×20, area×2	spot×30, line×30, area×3	
Analysis Storage	The an	alysis object can be saved	with the image (spots, line	es. areas)	
Auto Max & Min Temp	It can track the highest temper				
Tracking (IR / PIP)	3		e same time	,	
Isotherm		Up and down, o	entered interval		
Temperature Alarm	Automatic alarm (image and so			old, and supports the area alar	
<u>'</u>		fund	ction		
Storage					
Image Storage	Built-in 64G, external SD card supports up to 64G				
Image Format	Picture format JPG (with temperature information) MP4 (without temperature information) or IRGD (with temperature information)				
				re information)	
Video Format					
Video Format Dual-path Recording		ording of visible light and in		ature data), support manual	
Dual-path Recording		ording of visible light and in	frared video (with temper ling storage	ature data), support manual	
Dual-path Recording	Support simultaneous reco	ording of visible light and in storage/tim	ning storage		
Dual-path Recording		ording of visible light and in storage/tim n, ranging, focus), WIFI, mic	ning storage rophone (adjustable volur		
Dual-path Recording Other Hardware	Support simultaneous reco	ording of visible light and in storage/tim n, ranging, focus), WIFI, mic electronic compass, GPS	ning storage rophone (adjustable volur 5, light sensor, Bluetooth	ne), speaker (adjustable volum	
Dual-path Recording	Support simultaneous reco	ording of visible light and in storage/tim n, ranging, focus), WIFI, mic electronic compass, GPS image data with PC), powe	ning storage rophone (adjustable volur 5, light sensor, Bluetooth	ne), speaker (adjustable volum	
Dual-path Recording Other Hardware Interface	Support simultaneous reco	ording of visible light and in storage/tim n, ranging, focus), WIFI, mic electronic compass, GPS image data with PC), powe intel iccording to UN38.3 certific	rophone (adjustable volur 5, light sensor, Bluetooth r supply (12V), SD card, G face ation); can work for 4 hou	ne), speaker (adjustable volum igabit Ethernet, Micro HDMI, tri	
Dual-path Recording Other Hardware Interface Battery	Support simultaneous reco Flashlight, laser (laser indication TYPE-C (used to transmit native Rechargeable lithium battery (c	ording of visible light and in storage/tim n, ranging, focus), WIFI, mic electronic compass, GPS image data with PC), powe intel iccording to UN38.3 certific with sle	rophone (adjustable volur S, light sensor, Bluetooth r supply (12V), SD card, G face ation); can work for 4 hou ep mode	ne), speaker (adjustable volum igabit Ethernet, Micro HDMI, tri irs (comprehensive working tim	
Dual-path Recording Other Hardware Interface	Support simultaneous reco Flashlight, laser (laser indication TYPE-C (used to transmit native Rechargeable lithium battery (c	ording of visible light and in storage/tim n, ranging, focus), WIFI, mic electronic compass, GPS image data with PC), powe intelectording to UN38.3 certific with sleg temperature: -20°C~50°C	rophone (adjustable volur 5, light sensor, Bluetooth r supply (12V), SD card, G face ation); can work for 4 hou ep mode Storage temperature: -40	ne), speaker (adjustable volum igabit Ethernet, Micro HDMI, tri irs (comprehensive working tim	
Dual-path Recording Other Hardware Interface Battery	Support simultaneous reco Flashlight, laser (laser indication TYPE-C (used to transmit native Rechargeable lithium battery (c	ording of visible light and in storage/tim n, ranging, focus), WIFI, mic electronic compass, GPS image data with PC), powe intelectording to UN38.3 certific with sleg temperature: -20°C~50°C	rophone (adjustable volur S, light sensor, Bluetooth r supply (12V), SD card, G face ation); can work for 4 hou ep mode	ne), speaker (adjustable volum igabit Ethernet, Micro HDMI, tri irs (comprehensive working tim	
Dual-path Recording Other Hardware Interface Battery Working Temperature	Support simultaneous reco	ording of visible light and in storage/tim n, ranging, focus), WIFI, mic electronic compass, GPS image data with PC), powe intelectording to UN38.3 certific with sleg temperature: -20°C~50°C	rophone (adjustable volur 5, light sensor, Bluetooth r supply (12V), SD card, G face ation); can work for 4 hou ep mode Storage temperature: -40	me), speaker (adjustable volum igabit Ethernet, Micro HDMI, tri irs (comprehensive working tim 0°C~70°C	
Dual-path Recording Other Hardware Interface Battery Working Temperature Encapsulation	Support simultaneous reco	ording of visible light and in storage/tim n, ranging, focus), WIFI, micelectronic compass, GPS image data with PC), power interest incoording to UN38.3 certific with sleg temperature: -20°C~50°C IP	rophone (adjustable volur 5, light sensor, Bluetooth r supply (12V), SD card, G face ation); can work for 4 hou ep mode Storage temperature: -40	me), speaker (adjustable volum igabit Ethernet, Micro HDMI, tri irs (comprehensive working tim 0°C~70°C	
Dual-path Recording Other Hardware Interface Battery Working Temperature Encapsulation Size	Support simultaneous reco	ording of visible light and in storage/tim n, ranging, focus), WIFI, mice electronic compass, GPS image data with PC), power interest according to UN38.3 certific with sleg temperature: -20°C~50°C IP	rophone (adjustable volur 5, light sensor, Bluetooth r supply (12V), SD card, G face ation); can work for 4 hou ep mode Storage temperature: -40	me), speaker (adjustable volum igabit Ethernet, Micro HDMI, tri irs (comprehensive working tim 0°C~70°C	
Dual-path Recording Other Hardware Interface Battery Working Temperature Encapsulation Size Weight	Support simultaneous reco	ording of visible light and in storage/timen, ranging, focus), WIFI, mice electronic compass, GPS image data with PC), power incording to UN38.3 certific with sless temperature: -20°C~50°C IP 106mm×145mm×135mm 135 CE, FCC, ROH	rophone (adjustable volurs, light sensor, Bluetooth r supply (12V), SD card, Gface ation); can work for 4 housep mode Storage temperature: -4654 50g S, KC, UN38.3 dapter, Adapter Plug (5),	me), speaker (adjustable volum igabit Ethernet, Micro HDMI, tripers (comprehensive working time) 20°C~70°C 206mm×169mm×135mm	
Dual-path Recording Other Hardware Interface Battery Working Temperature Encapsulation Size Weight	Flashlight, laser (laser indication TYPE-C (used to transmit native Rechargeable lithium battery (c Working Thermal Camera, Lens Cover, 2 to HDMI cable, Network Cable, (ording of visible light and in storage/timen, ranging, focus), WIFI, mice electronic compass, GPS image data with PC), power interest in the i	rophone (adjustable volur 5, light sensor, Bluetooth r supply (12V), SD card, G face ation); can work for 4 hou ep mode Storage temperature: -40 54 50g S, KC, UN38.3 dapter, Adapter Plug (5), nual, Data Download Card	me), speaker (adjustable volum igabit Ethernet, Micro HDMI, tri irs (comprehensive working tim 2°C~70°C 206mm×169mm×135mm	







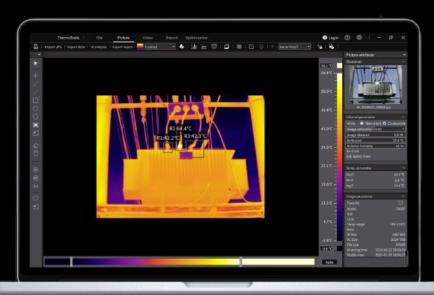




Standard Lens				
Focal length	15mm	25mm	28mm	
FOV	25°×19°	25°×19°	25°×19°	
IFOV	1.13mrad	0.68mrad	0.43mrad	
Min focus distance	0.15m	0.3m	0.3m	
standard Lens+Wide Angle (48°×35°)				
Focal length	7.78mm	13mm	15mm	
FOV	45°×34°	45°×34°	45°×34°	
IFOV	2.19mrad	1.31mrad	0.8mrad	
Min focus distance	0.1m	0.15m	0.1m	
Standard Lens+Telephoto (11°×8°)				
Focal length	33mm	55mm	45mm	
FOV	11°×9°	11°×9°	15°×11°	
IFOV	0.52mrad	0.31mrad	0.27mrad	
Min focus distance	2m	2m	3m	
standard Lens+Ultra-Telephoto (7°×5°)				
Focal length	50.7mm	85mm	75mm	
FOV	7°×6°	7°×6°	9°×7°	
IFOV	0.34mrad	0.2mrad	0.16mrad	
Min focus distance	4m	4m	5m	
Standard Lens+Macro Lens				
Working distance	67mm			
Object/target Size	23.3mm*17.5mm			
Spatial Resolution(IFOV)	60.7µm			
Standard Lens+High Temp				
FOV	25°×19°			
Temp Measurement Range	-40°C~-2000°C			

Raytek PS Series Aaccessories



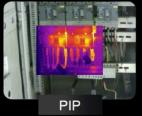


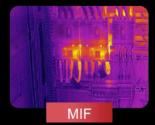
Raytek Thermotools Software

- Detail Thermal Analysis of Images stored in Camera with Name of Object, date and time stamping
- Basic & Advanced Reporting Area specific emisivity settings
- Line, Square, Free Object Thermal Analysis
- History Image Trending
- Open Protocols to integrate with Other Softwares









Thermal Image Modes
Full Infrared (IR)
Picture in Picture (PIP)
Radiometric Visual (Visual)
Visual and Infrared Fusion (MIF)

Standard Accessories

Wide Angle

Micro



High Temperature

Telephoto

Ultra Telephoto

Raytek PS Series Featrures





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