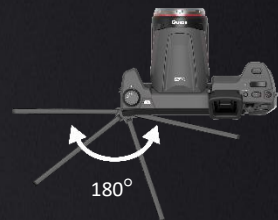


PS Series

High Performance Thermal Camera

Built For The Experts



Introduction

The Guide PS 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
- Upgraded visible light camera, flagship model up to 13 million pixels, supports infrared and visual imaging dual-channel video recording
- Support AI voice recognition, text photo recognition and typing, convenient for customizing the image name
- Optional lenses are available such as Macro/ Wide-angle/ Medium telephoto/ 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

Specifications

Model	PS400		PS600		PS610		PS800	
Imaging and optics								
Detector type	VOx							
Infrared resolution	384 × 288@17μm		640 × 480@17μm				1024 × 768@12μm	
Super resolution technology	Yes, Upgrade to 768 × 576		Yes, upgrade to 1280 × 960				Yes, Upgrade to 2048 × 1536	
Wavelength range	7.5 to 14μm							
Focal length	15 mm		25 mm				28 mm	
Field of view	25° × 19°							
Minimum object distance	0.15 m		0.3 m					
D:S	885:1		1470:1				2325:1	
NETD	≤45 mK		≤40 mK		≤30 mK			
Infrared frame rate	30 Hz / 9 Hz						25 Hz / 9 Hz	
Focusing mode	Electric / Manual							
Digital zoom	1.1x to 10x		1.1x to 35x					
Shot recognition	Auto / Manual							
Measurement and analysis								
Measurement range	Support auto-switching: -40°C to 150°C, 100°C to 800°C, Optional 700°C to 2000°C (High temperature lens is required)							
Measurement accuracy	±2°C or ±2%, whichever is greater				±1°C or ±1%, whichever is greater			
Analyzed target	Spot × 12, Line × 12, Area × 12		Spot × 16, Line × 16, Area × 16		Spot × 20, Line × 20, Area × 20		Spot × 30, Line × 30, Area × 30	
Tracking / Alarm	Full screen maximum, minimum and average temperature tracking; The maximum, minimum and average temperature tracking of analyzed target; full screen temperature threshold alarm (image and voice)							
Isothermals	Available							
Temperature measuring parameters	Emissivity, reflected temperature, target distance, humidity, atmospheric transmittance, optical transmittance							
Image display								
Display screen	5" LCD							
Eyepiece	1,280 × 960 LCOS screen							
Digital camera	8 MP		13 MP					
Image mode	IR, VIS, MIF and PIP							
Image adjustment	Automatic, semi-automatic, manual							
Color palettes	White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, Customized		White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, Tint, Black Hot, Customized		White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, Tint, Black Hot, Blue Hot, Sepia, Customized			
Storage and transmission								
Storage media	Local storage (64 GB) and SD card (64 GB and up to 128 GB)							
Image storage format	JPG with temp info							
Video storage without temperature information	Mp4 format can be used to record audio synchronously							
Video storage with temperature information	Irgd for temperature analysis							
External interface	Type-C, DC (12V) , SD card slot, Network port, Micro HDMI, UNC ¼"-20 (Tripod mounting)							
Laser	630~670nm, Class 2 laser, < 1mW, indicating the measured target and laser ranging							
Audio	Recording and playback through microphones and speakers respectively							
WIFI	Yes, it can be connected to the mobile terminal for image and real-time video transmission							
GPS	Available							
Bluetooth	Available							
4G / 5G	4G module (optional)							
Power system								
Battery type	Lithium-ion rechargeable battery							
Battery working time	≥4 hours						≥3 hours	
Power management	Timed shutdown and sleep mode							
Charging mode	The device can be charged through desktop charger after shutdown.							
Charging time	90% of full charge in 2.5 hours							
Environmental parameters								
Working temperature	-20°C to 50°C							
Storage temperature	-40°C to 70°C							
IP rating	IP54							
Certification	CE, FCC, ROHS, KCC, Anatel, Damp heat test, Vibration test, Shock test, Impact test, UN38.3, MSDS							
Physical parameters								
Weight	≤1.35 Kg (with battery)						≤1.5 Kg (with battery)	
Size (L × W × H)	206 × 145 × 135 mm						206 × 169 × 135 mm	
Software kit	ThermoTools							
Standard	A device, Lens cover, Lithium-ion battery, Power adapter, Adapter plug (5) , TYPE-C USB cable, Micro HDMI cable, Network cable, Quick Start Guide, Instructions, Data download card, SD card (64 GB) , Shoulder strap, Carrying case, Factory certificate				A device, Lens cover, Lithium-ion battery, Power adapter, Adapter plug (5) , TYPE-C USB cable, Micro HDMI cable, Network cable, Quick Start Guide, Instructions, Data download card, SD card (64 GB) , Shoulder strap, Carrying case, Factory certificate, Desktop charger			
Options	Lithium-ion battery, Carrying bag, Desktop charger, Bluetooth headset, Expanded lens, 4G module, Tripod				Lithium-ion battery, Carrying bag, Bluetooth headset, Expanded lens, 4G module, Tripod			

Extended lens information list

Model	PS400	PS600/PS610	PS800
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+Medium 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+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		

