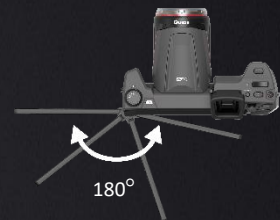


# PS Series

## 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 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

# Specifications

Model	PS400	PS600	PS610	PS800
<b>Imaging and optics</b>				
Detector type	VOx			
Infrared resolution	384*288	640*480		1024*768
Super resolution technology	Support, Upgrade to 768 * 578	Support, upgrade to 1,280*960		Support, Upgrade to 2048*1536
Wavelength range	7.5-14μm			
Field angle	25°*19°			
Minimum object distance	0.15m	0.3m		
NETD	≤45mK (Optional 30mK)	≤40mK	< 30mK	
Infrared frame rate	30Hz/9HZ			25Hz/9Hz
Focusing mode	Electric/Manual			
Digital zoom	1.1~10	1.1~35		
Shot recogniti	Auto/manual			
<b>Measurement and analysis</b>				
Measurement range	-40-150°C, 100-800°C, automatic switching, external lenses, up to 2,000°C, and the range of level 3 is: 700°C-2000°C			
Measurement accuracy	±2°C or ±2%, whichever is greater		±1°C or ±1%, whichever is greater (standard lens, ambient temperature 23°C±2°C, target temperature 20°C to 60°C, distance within 3m)	
Analyzed target	12 spots, 12 lines, 12 areas, and temperature difference	16 spots, 16 lines, 16 areas, and temperature difference	20 spots, 20 lines, 20 areas, and temperature difference	30 spots, 30 lines, 30 areas, and temperature difference
Tracking/alarm	Tracking of both full-screen and analyzed target maximum temperature/minimum temperature/average temperature; Alarm: Visual and voice, and area alarm function			
Isothermals	Upward, downward, inside and outside the interval			
Temperature measuring parameter	Emissivity, reflected temperature, target distance, humidity, atmospheric transmittance, optical transmittance			
<b>Image display</b>				
Display screen	5" LCD			
Eyepiece	1,280 * 960 LCOS screen			
Digital camera	800w	1,300w		
Image mode	IR, VIS, MIF and PIP			
Image adjustment	Automatic, semi-automatic, manual			
Palette	8 colors, White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurite, Medical, customized			
<b>Storage and transmission</b>				
Storage medium	This unit and SD card			
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, Gigabit Ethernet, Micro HDMI, tripod interface			
Laser	Laser, laser pointer which can be displayed on infrared image, laser ranging, laser focusing			
Audio	Microphone (adjustable volume) Speaker (adjustable volume)			
WIFI	Yes, it can be connected to the mobile terminal for data transmission			
GPS	Available			
Bluetooth	Available			
4G	4G			
<b>Power system</b>				
Battery type	Lithium-ion rechargeable battery			
Battery working time	≥4H			≥3H
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			
<b>Environmental paraments</b>				
Working temperature	-20°C~50°C			
Storage temperature	-40°C~70°C			
IP rating	IP54			
Drop	1.2m (with package)			
Certificati	CE, FCC, ROHS, UN38.3 +air/sea freight + MSDS + 1.2m drop test for packages;Certifications of National Infrared and Industrial Electrical Heating Product Quality Supervision and Inspection Center and Hubei Institute of Measurement and Testing Technology;D			
<b>Physical parameters</b>				
Weight	1.35Kg (with battery)			≤1.5Kg (with battery)
Size	206mm*145mm*135mm			206mm*169mm*135mm
Software kit	ThermoTools			
Standard	A device, lens cover, 2 lithium batteries, power adapter, adapter plug (5), TYPE-C to USB cable, HDMI cable, network cable, Quick Start Guide, Instructions, flash memory disk, SD card (64GB), shoulder strap, carrying case and factory certificate		A device, lens cover, 2 lithium batteries, power adapter, adapter plug (5), TYPE-C to USB cable, HDMI cable, network cable, Quick Start Guide, Instructions, flash memory disk, SD card (64GB), shoulder strap, a desktop charger, carrying case and factory certificate	
Opti	A Lithium-ion battery, a carrying bag, a desktop charger, a Bluetooth headset, an expanded lens, a 4G module, a tripod		A Lithium-ion battery, a carrying bag, a Bluetooth headset, an expanded lens, a 4G module, a tripod	

## Extended lens information list

Model	PS400	PS600	PS800
<b>Standard Lens</b>			
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
<b>Standard Lens+Wide Angle (48°×35°)</b>			
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
<b>Standard Lens+Telephoto (11°×8°)</b>			
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
<b>Standard Lens+Ultra-Telephoto (7°×5°)</b>			
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
<b>Standard Lens+Macro Lens</b>			
Working distance	67mm		
Object/target Size	23.3mm*17.5mm		
Spatial Resolution(IFOV)	60.7μm		
<b>Standard Lens+High Temp</b>			
FOV	25°×19°		
Temp Measurement Range	-40°C~2000°C		

