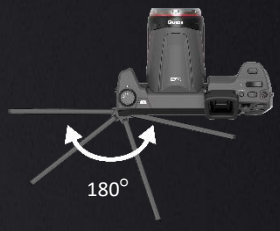
PS Series

High Performance Thermal Camera

Built For The Experts



Introduce

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
IR Imaging Performance			
Detector type	384×288@17μm, VOx	640×480@17μm, VOx	
Spectral	7.5~14μm		
Frame rate	30Hz/9Hz		
NETD	45mk	40mk	30mk
Lenses Options (* Focal length/ FOV / IFOV / Min focus distance # FOV / IFOV / Working distance @ FOV)			
Standard Lens*	15mm/24.9°x18.7°/1.13mrad/0.15m	25mm/24.6°×18.5°/0.68mrad/0.3m	
Wide Angle*	7.78mm/48.1°x35.9°/2.19mrad/0.1m	13mm/45.4°×34.8°/1.31mrad/0.15m	
Telephoto*	33mm/11.2°x8.4°/0.52mrad/2m	55mm/11.3°×8.5°/0.31mrad/2m	
Ultra Telephoto*	50.7mm/7.3°×5.5°/0.34mrad/4m	85mm/7.3°×5.5°/0.2mrad/4m	
Macro Lens#	67mm/23.3mm*17.5mm/60.7μm	67mm/23.3mm*17.5mm/37.5μm	
High Temp@	24.9°*18.7°	24.6°*18.5°	
Focus	1-touch fast autofocus, support electric/manual focus switch		
Lens Identification	Automatically identify and calibrate the lens without manual switching		
Image Presentation			
Visual Image	800 million pixels, autofocus		1300 million pixels, autofocus
LCD Display	5",1280×720 High Light Touch Screen		
Viewfinder	1280×960 LCOS Screen		
Image Mode	IR image/Visual image/PIP/MIF		
Digital Zoom	1×~10× continuously	1×~35× continuously	
Color Palettes	8 Color Palettes, and customizable	10 Color Palettes, and customizable	12 Color Palettes, and customizable
Super-resolution	4× Super-resolution, 768 x 576	4× Super-resolution, 1280 x 960	
Functions			
AI Voice Naming	Support AI voice naming, AI text recognition naming (text can be recognized by taking pictures), and typing		
Professional Laser Rangefinder	The distance between the thermal camera and target is automatically measured and displayed on the thermal image		
Temperature Measurement for Areas	Automatically measure the area of the boxes and circles		
Smart Stroke	Automatically outline the target contour by setting the area and tolerance (color difference between two pixels)		
Measurement Corrections	Support emissivity correction, atmospheric transmittance correction and optical transmittance correction		
Level Span	Automatic, semi-automatic, manual		
Panorama Image Mosaic	N/A	YES	
Cloud Service	Support local and cloud data upload and download		
Measurement			
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 required)		
Accuracy	±2°C~±2%, whichever is greater		±1°C~±1%, whichever is greater
Temp Measurement Area (IR/PIP)	spot × 12, line × 12, area × 12	spot ×16, line ×16, area × 16	spot ×16, line ×16, area × 16
Analysis Storage	The analysis object can be saved with the image (spots, lines, areas)		
Auto Max & Min Temp Tracking (IR / PIP)	It can track the highest temperature/lowest temperature/average temperature of the whole screen and the analysis object at the same time		
Isotherm	Up and down, centered interval		
Temperature Alarm	Automatic alarm (image and sound) when exceeding the alarm temperature threshold, and supports the area alarm function		
Storage			
Image Format	Built-in 64G, external SD card supports up to 64G		
Image Internal Storage	Picture format JPG (with temperature information)		
Video Format	MP4 (without temperature information) or IRGD (with temperature information)		
Dual-path Recording	Support simultaneous recording of visible light and infrared video (with temperature data), support manual storage/timing storage		
Other			
Hardware	Flashlight, laser (laser indication, ranging, focus), WIFI, microphone (adjustable volume), speaker (adjustable volume), electronic compass, GPS, light sensor, Bluetooth		
Interface	TYPE-C (used to transmit native image data with PC), power supply (12V), SD card, Gigabit Ethernet, Micro HDMI, tripod interface		
Battery	Rechargeable lithium battery (according to UN38.3 certification); can work for 4 hours (comprehensive working time); with sleep mode		
Working Temperature	Working temperature: -20°C~50°C Storage temperature: -40°C~70°C		
Encapsulation	IP54		
Size/Weight	206mm×145mm×135mm, 1350g		
Certificates	CE, FCC, ROHS, KC, UN38.3, certification of Chinese Academy of Metrology, certification of China Electric Power Research Institute		
Standard Accessories	Thermal Camera, Lens Cover, 2 Lithium Batteries, Power Adapter, Adapter Plug (5), TYPE-C to USB cable, Micro HDMI to HDMI cable, Network Cable, Quick Start Guide, User Manual, Data Download Card, SD Card (64GB), Shoulder Strap, Safety box, Calibration Certificate		
Optional Accessories	Lithium Battery, Carrying bag, Cradle Charger, Bluetooth Headset, Extended Lens, Lens Bag		

Guide sensmart | Sensing Beyond Visible

Guide Sensmart Tech Co., Ltd.

Loeffelholzstrasse 20, Haus 12 Eingang Nord, 90441 Nuremberg, Germany

Email: enquiry@guide-infrared.com

*Technical parameters are subject to change without notice. For the latest information, please visit our website: www.guideir.com