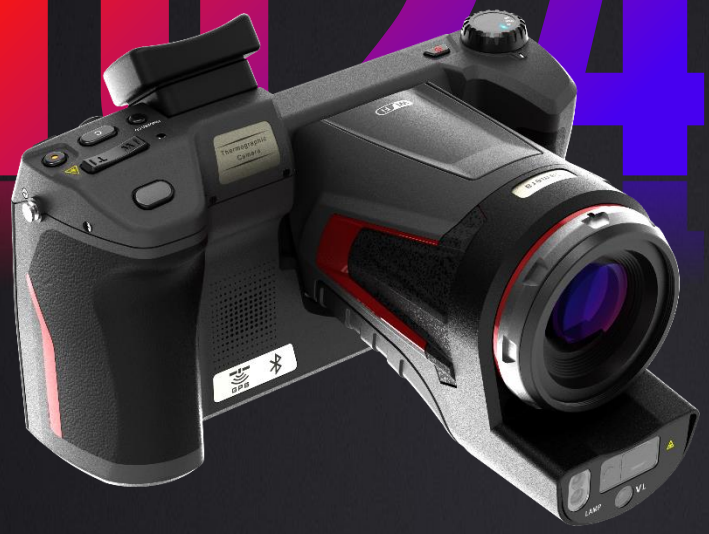
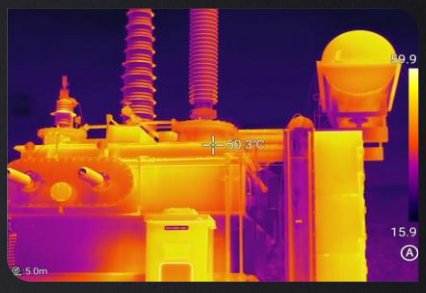
PS800 High Performance Thermal Camera

Produce with extraordinary imaging quality

1024





Introduction

The Guide PS800 high-performance thermal camera is designed to make the inspection, maintenance and troubleshooting work easier, faster and more accurate. It adopts 1024×768 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.

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

Application

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

Specifications

IR Imaging Performance	
Detector type	1024×768@12μm, VOx
Spectral	7.5~14μm
Frame rate	30Hz/9Hz
NETD	30mk
Standard Lens	
Focal length	28mm
FOV	25°×19°
IFOV	0.43mrad
Min focus distance	0.3m
Standard Lens+Wide Angle (48°×35°)	
Focal length	15mm
FOV	45°×34°
IFOV	0.8mrad
Min focus distance	0.1m
Standard Lens+Telephoto (11°×8°)	
Focal length	45mm
FOV	15°×11°
IFOV	0.27mrad
Min focus distance	3m
Standard Lens+Ultra-Telephoto (7°×5°)	
Focal length	75mm
FOV	9°×7°
IFOV	0.16mrad
Min focus distance	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

Lenses Options	
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	13 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×~35× continuously
Color Palettes	12 Color Palettes, and customizable
Super-resolution	4× Super-resolution, 2048x1536
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	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	±1°C~±1%, whichever is greater
Temp Measurement Area (IR/PIP)	spot×30, line×30, area×30
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 Storage	Built-in 64G, external SD card supports up to 64G
Image Format	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	206mm×169mm×135mm
Weight	1350g
Certificates	CE, FCC, ROHS, KC, UN38.3
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(Wide-angle/Medium telephoto/Telephoto/Macro/High temperature), Lens Bag, 4G LTE USB Dongle

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