Guide sensmart

PS800

High Performance Thermal Camera

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.

Technical Parameters

Imaging and optics	
Detector type	VOx
Infrared resolution	1024*768
Super resolution technology	Support, Upgrade to 2048*1536
Wavelength range	7.5~14μm
Field angle	25°*19°
Minimum object distance	0.3m
Netd	<30mK
Infrared frame rate	25Hz/9Hz
Focusing mode	Electric/manual
Digital zoom	1.1~35 1.1~35
Shot recogniti	Auto/manual
Measurement and analysis	
Measurement range	-40-150℃, 100-800℃ Automatic switching and external lens, extended to 2,000℃, The range of level 3 is: 700℃-2000℃

Measurement and analysis

Measurement accuracy	±1℃ or ±1%, whichever is greater (standard lens, ambient temperature 23℃±2℃, target temperature 20℃ to 60℃, distance within 3m)
Analyzed target	30 temperature measuring spots, 30 temperature measuring lines, 30 temperature measuring areas, and temperature difference
Full-screen maximum/minimum temperature 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

Image displayed

Display screen	5" LCD
Eyepiece	1,280 * 960 LCOS screen
Digital camera	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

Storage and transmission

Storage medium	This unit and SD card

Storage and transmission

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/5	4G

Power system

Battery type	Lithium-ion rechargeable battery
Battery working time	≥3H
Power management	Timed shutdown and sleep mode
Charging mode	The device can be charged through desktop charger after shutdown.

Power system	
Charging time	90% of full charge in 2.5 hours

Environmental paraments	
Working temperature	-20℃~50℃
Storage temperature	-40℃~70℃
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

Physical parameters	
Weight	≤1.5Kg (with battery)
Size	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
Opti	A lithium-ion battery, a carrying bag, a desktop charger, an expanded lens, a 4G module, a tripod