PL Series Intelligent Thermal Camera

Refresh the temperature record at 30Hz



Introduce

With a built-in self-developed high-sensitivity IR detector with a maximum resolution of 640x480, a 13MP visible light camera, and 5 focusing modes, PL Series, the high-precision thermal camera designed specifically for the industrial field helps users intuitively view high-definition images and temperature details of the target, with the classic "hammer" shape. 30Hz infrared frame rate for fast and accurate access to more temperature data of moving targets, far beyond the same level of products. Interconnected with the device via WIFI, the real-time screen can be previewed on the mobile app Thermography, including screens under four image modes: IR, VL, MIF, and PIP. Coupled with the comprehensive ThermoTools infrared analysis software on the PC side, professional reports can be generated easily in a few steps for high efficiency and outstanding experience.

Features and Benefits

- The new generation of self-developed IR detectors with a maximum resolution of 640x480
- o ASIC algorithms for pixel point details and hidden hazards
- o A 13MP visible light camera and dual illumination for easy location of faults
- o Up to 30Hz IR video frame rate for temperature analysis by the screenshot
- IP54 waterproof and dustproof and 2m drop resistance with military-grade quality
- Built-in WIFI module for easy transfer of images to the cloud and remote instant download and analysis
- o OTA online upgrades to keep the device in top shape

Application

- o Powe
- Iron and steel metallurgy
- Oil and Petrochemical
- o HVAC
- Intelligent Manufacturing
- o Electronic Information

Specifications

Product model	PL610	PL630
Imaging and optics	<u> </u>	
Detector type	V0x, 7.5 to 14μm	
Infrared resolution	480 × 360@12μm	640 × 480@12μm
Super resolution technology	Yes, Upgrade to 960 × 720	Yes, Upgrade to 1280 × 960
NETD	≤45 mK	≤40 mK
Infrared frame rate	30 Hz	
Focal length	17.7 mm	
Field of view	25° × 19°	
IFOV	0.71mrad	
Minimum object distance	0.15m	
D:S	1408:1	
	Manual / Automatic / Continuous autofocus	
Focusing mode		
Digital zoom	1.1x to 16x	1.1x to 20x
Shot recognition	Au	TO
Measurement and analysis		
Measurement range	Support auto-switching: -40°C to 150°C, 0°C to 650°C	
Measurement accuracy	±2°C or ±2%, whichever is greater	
Analyzed target	Spot × 12, Line × 12, Area × 12	Spot × 16, Line × 16, Area × 16
Tracking / Alarm	Full screen maximum, minimum and average temperature tracking; Th	
Temperature measuring parameters	target; full screen temperature threshold alarm (image and voice) Emissivity, reflected temperature, target distance, humidity, atmospheric transmittance, optical transmittance, dew point	
Others	Isothermals, Smart Stroke, Intelligently calculate the area	
Image display	isothermus, omart otrone, m	temperary calculate the area
Display screen	4.2' 000×400 pivo	I taughaaraan I CD
	4.3', 800×480 pixel	
Digital camera	8 MP	13 MP
Image mode	IR, VIS, N	
Image adjustment	Level span mode: Automati White Hot, Iron Red, Arctic, Rainbow 2, Hot Iron, Rainbow 1, Fulgurit	
Color palettes	Amber, Cu	
Functions		
Recording function	Photo (image stitching) and v	ideo (infrared & visible light)
Cloud Services	Avail	able
Others	Customized physical button, Intelligent of	diagnosis, NFC connection, OTA update
Storage and transmission		
Storage media	Local storage (64 GB) and external	SD card (64 GB and up to 256 GB)
Image storage	JPG with temp info	
Video storage	MP4 format (without temp info) can be used to record audio synchronously; Irgd (with temp info), up to 30 Hz (optional) for temperature	
<u> </u>	analysis	
External interface	Type-C, SD card slot, UNC ¼"-20 (Tripod mounting)	
WIFI	Yes, it can be connected to the mobile terminal for image and real-time video transmission	
Bluetooth	Bluetooth 5.0, support image transmission (only for Android)	
Power system		
Battery type	Lithium-ion recha	argeable battery
Battery working time	≥4 hours	
Charging mode	TYPE-C charging; PC/portable charger; Capable of charging while using	
Charging time	90% of full charge in 2.5 hours	
Environmental parameters		
Working temperature	-20°C to	o 50°C
Storage temperature	-40°C to 60°C	
IP rating	IP54	
Drop	2m dro	p test
Certification	CE, FCC, ROHS, KCC, Anatel, Damp heat test, Vibra	ation test, Shock test, Impact test, UN38.3, MSDS
Physical parameters		
Hardware	Laser (Indication, Ranging), Illuminator, Micr	ophone, Speaker, Electronic Compass, GPS
Weight	≤1.15KG (w	
Size (L × W × H)	292 × 125 × 125 mm	
,	PC: ThermoTools; Mobile: Thermography (iOS/Android)	
Software kit	A device (with lens), Front and lens covers, Lithium-ion battery (2 pcs), Desktop charger, Power adapter (2 pcs), Adapter plug (3 pcs) ,	
Software kit	A device (with lens) Front and lens covers 1 ithium-ion battery (2 po	cs) Deskton charger Power adapter (2 ncs) Adapter plug (3 ncs)
Standard	A device (with lens), Front and lens covers, Lithium-ion battery (2 pc Cable (double-headed TYPE-C USB), TYPE-C USB cable, SD card (64 GE Guide, Data download card (analysis software & user	3) , Wrist strap, Shoulder strap, Safety box, Packaging list, Quick Start