Guide sensmart

IMPROTEK

C Series

High Performance Thermograpgic IR Camera

Introduce

C series thermographic camera is an intelligent inspection device superior to any other thermal imaging products in its class. High resolution allows the electrical and mechanical users to pinpoint any overheating quickly and take accurate temperature measurement intuitively on a 5-inch 720P LCD display. The ergonomic rotating LCD and lens design makes it comfortable to aim up at any overhead components. Based on an open Android operating system design, it works not only as a thermal camera but also a mobile terminal for versat.

Features and Benefits

- Rotating LCD display up 270°C for easy viewing angle
- Rotating lens detents up to 70°C for easy viewing angle
- Android based operation system with open platform for various APP developments and convenient program updating
- Powerful onboard analysis and reporting capabilities
- Multiple image presentation including IR, visible, PIP and MIF
- Wi-Fi data transfer
- Optional high temperature range measuring up to 2000°C
- Targeting electrical and industrial applications

Application Electrical diagnosis / R&D / Science education / Building diagnosis

Specifications

C series	C400	C640	C640Pro
Detector Type	400×300,8~14um	640×480,8~14um	
NETD	45mk	40mk	30mk
Frame Frequency	25Hz/9Hz		
Focus	Motor-drive/Auto		
Standard Lens	21.7°×16.4°/25mm/F1.0	24.6°×18.5°/25mm/F1.0	
Optional Lens	40.5°×31°/13mm/F1.1/0.15m	45.4°×34.9°/13mm/F1.1/0.1m	
	10.0° x 7.5° /55mm/F1.1/2m	11.3° x 8.5° /55mm/F1.1/1.5m	
	6.7° x 5.1° /85mm/F1.2/5m	7.3° x 5.5° /85mm/F1.2/5m	
	High-temp filter lens		
Focusing Range	25mm/0.4m 13mm/0.15m 55mm/2m	25mm/0.3m 13mm/0.1m 55mm/1.5m	
IFOV(mrad)	25mm/0.99 13mm/1.84 55mm/0.45	25mm/0.67 13mm/1.24 55mm/0.31	
LCD Display	5",1280×720 High Light Touch Screen		
Viewfinder	1280×960 LCOS Screen		
Brightness Contrast	Auto/Manual/Fixed		
Image Mode	IR image/Visual image/PIP/MIF		
Digital Zoom	1.1~4x continuously		1.1~10x continuously
Palette	8		10
Measurement Range	Filter 1:-20ºC~250ºC;Filter 2:200ºC~800ºC;Optional 2000° C		
Accurancy	±2ºC~±2%	Filter 1:±1ºC~±1%;Filter 2:±2ºC~±2%	
Spot	5 spots	8 spots	10 spots
Line	Vertical & horizontal (max,min,average temp)	8 lines (max,min,average temp)	10 lines (max,min,average temp)
Area	5 areas (max,min,average)	8 areas (max,min,average)	10 areas (max,min,average)
Analysis Info Storage	N/A		Saved with image(spot,line areas)
Auto Tracking	either max or min		both max and min
Isotherm	Upward/Downward		Upward/Downward and Internal
Temperature Alarm	Visual and Voice		
Image Format	JPG or with raw data		
Image Internal Storage	16G		
Voice Annotation	60S		
Text Annotation	soft keyboard input		
Sketch on image	YES		
Visual Image Annotation	N/A		2 pcs
Report Creation	PDF format		
Report Print	Wi-Fi print		
Video Format	H.264(with temperature information)		
Video Internal Storage	Manual		Internal storage
Dual-path Recording	N/A		Yes
Hardware	5MP Visual camera;Illuminator;laser;Wi-Fi;Microphone(Volume adjustable);Speaker(Volume adjustable);Digital compass;GPS;Light sensor;Bluethooth(only C640 Pro)		
Interface	Micro USB 2.0,SD card,Gigabit Ethernet,Tripod,Mini HDMI		
Battery	Rechargeable Li-ion Battery,operating more than 4 hours		
Sleeping Mode	YES		
Working Temperature	-15° C~50° C		
Storage Temperature	-40° C~70° C		
Humidity	10%~95%		
Shock	25G,IEC 60068-2-29		
Vibration	2G,IEC 60068-2-6		
Weight	1350g		
Size	206mm×145mm×135mm		

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