DT-870/870L-8

870/870L-8 Thermal Imagers are designed to make your work easier, more productive and effective. 80x80 resolution at 50Hz for real-time capture; Temperature range from -20° C to 380° C (-4° F to 716° F). Hot/Cold spot marker automatically finds the hotest and coldest spots. Lithium polymer battery & power supply, and USB cable. Bluetooth connectivity allows the Infrared Thermal Camera to send thermal pitctures to mobile devices.

Feature

-50Hz fast frame rate, fast capture temperature varies
-High temperature range, more application situation
-Simple operate, easy to use
-Smart design, Portable,Small and lightweight to carry with you anywhere
-Durable, withstand up to a 2m drop
-IP54 waterproof level
-Flashlight

Specifications		870	870L-8
Imaging and optical data			
Field of View (FOV)	21×21	*	8x8 °
Spatial resolution	4.53mrad	*	1.79mrad
NETD	<0.1℃@30℃(80℉)/100mK	*	*
Image frequency	50Hz	*	*
Focus mode	Focus free	*	*
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8－14 μm	*	*
IR Resolution		80×80	80*80
Image presentation			
Display	2″TFT LCD, 240×320 pixels	*	*
Color palettes	Iron/Rainbow/Gray/Gray Inverted	*	*
Measurement			
Object Temperature Range	－20℃ to 380℃（－4° F to 716° F）	*	*
Accuracy	+/－2℃（+/－3.6° F）or +/－2% of reading	*	*
Measurement Analysis			
Spotmeter	Center Spot	*	*
Automatic Hot/Cold Detection	Auto hot or cold markers	*	*
Emissivity Correction	8 pre-define level and Variable from 0.01 to 1.0	*	*
Storage of Images		*	*
Image Storage format	Bitmap(BMP),including measurement data.	*	*
Data Communication Interfaces			
Bluetooth		*	*
Power System			
Battery	Li-ion battery, 4 hours operting time	*	*
Input Voltage	DC 5V	*	*
Charging System	In camera(AC adapter)	*	*
Power Management	Automatic shutdown	*	*
Environmental Data			
Operting Temperature Range	－20℃ to 50℃（－4° F to	*	*

	122° F）		
Storage Temperature Range	-40℃ to 70℃（-40° F to 158° F）	*	*
Humidity(operating and storage)	10% to 90%	*	*
Drop test	2m	*	*

Accessories:
Battery, APP software, Adaptor, Carrying case, USB cable, Gift box

Specifications

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Imaging and optical data				
IR resolution	Focal plane array (FPA), uncooled microbolometer	80x80	220x160	320x240
Field of View	(FOV)	21°x21°	36°x27°	36°x27°
Spatial resolution	(IFOV)	4.53mrad	3mrad	3mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C/(+86 o F) < 0.1°C/100mK	*	*	*
Image frequency	9Hz	*	*	*
Focus	Focus free	*	*	*
Image presentation				
Display	3.5" 640x480 touch screen	*	*	*
Image modes	IR image, visual image, picture in picture, AUF	*	*	*
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather	*	*	*
Measurement				
Object temperature range	Low range: –20°C to +330°C (–4°F to +302°F)	*	*	*
Accuracy	±5°C (±3.6°F) or ±3% of reading	*	*	*
Measurement analysis				
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks	*	*	*
Set-up				
Laser / floodlight	< class2 / white LED floodlight	*	*	*
Language selection	English, Chinese, French, German, Spanish	*	*	*
Storage of videos/images				
Storage media	4Gbytes eMMC	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	*	*	*
Digital camera				
Built-in visible light digital camera	2M Pixels	*	*	*
Data communication interfaces				
USB interfaces	USB-micro, data transform between camera and PC Remote control, live video	*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	*	*	*
Power system		*	*	*

Battery	Lithium polymer battery, 4 hours operating time	*	*	*
Input voltage	DC 5V	*	*	*
Charging system	In camera (AC adapter)	*	*	*
Power management	Automatic shutdown and sleep mode (user selectable)	*	*	*

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