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SMARTMETER

D Series

Intelligent Thermographic IR Camera

Introduce

As Guide Infrared's newly launched thermographic IR camera, D series continues Guide's tradition of offering both high-quality and innovative features. D series' highlights lies in its rugged and ergonomic design. More than that, its brief operation interface and intelligent button navigation would make the first time user feel as an expert. D series are equipped with optional lens set for different FOV requirements in different occasions. With built-in illuminator, you can easily take visible photos and compare them with IR photos, which help you find problems more easily.

Application

Electrical equipment inspection / Medical diagnosis / Mechanical maintenance / Telecom equipment inspection / Building diagnostic / Chemical industry equipment inspection

Features and Benefits

- 4" high light touch screen
  Adjustable brightness. Still clear under sunshine. All operation can be completed on the touch screen
- Optional Lens set
  You can choose the proper lens for different occasions
- Built-in illuminator
  Take visible photos in the low lighting environment
- Different image type
  IR, visible, MIF, PIP
- Removable SD card
  Up to 32G storage capacity for photos and videos compression storage
- Wi-Fi share
  Share IR images and findings immediately
- Connected with mobile terminal
  Connected with mobile terminal to take IR photo, to achieve multi screen control

Specifications

	D192F	D384F	D192M	D384M	D384A
Imaging Performance					
IR resolution	192×144	384×288	192×144	384×288	384×288
NETD	50mk	45mk	50mk	45mk	40mk
FOV	37.8°×28.8°	28.4°×21.5°	37.8°×28.8°	28.4°×21.5°	35°×27°
Min focus distance	1m	1m	0.5m	0.5m	0.4m
Focal length	7mm/F1.1	19mm/F1.0	7mm/F1.1	19mm/F1.0	15mm/F1.1
IFOV	3.45mrad	1.29mrad	3.45mrad	1.29mrad	1.60mrad
Lens identification	N/A		Automatic/ Manual		N/A
Frame rate	25HZ				
Focus	Fixed		Manual		Electric/ Automatic
Digital zoom	1.1~4				
Detector					
Detector type	VOx/ 8~14μm				
Pixel size	25μm				
Optional lens					
Wide angle	N/A	N/A	N/A	57°×45°/8.8mm/F1.0/0.3m/2.65mrad	N/A
Tele	N/A	N/A	14.4°×10.8°/19mm/F1.0/1m/0.65mrad	13.7°×10.3°/40mm/F1.2/1m/0.62mrad	N/A
High temp	N/A	N/A	Yes , 650℃~1500℃	Yes , 650℃~1500℃	N/A
Image Presentation					
Display	4" highlight LCD touch screen, 480×800, 24 bits				
Image modes	IR image/ Visual image MIF/ PIP				
Measurement					
Temperature range	-20℃~350℃		-20℃~150℃ , 100℃~650℃ , 650℃~1500℃		-20℃~150℃ , 100℃~650℃
Accuracy	±2℃ or ±2% of reading for ambient temperature 15°C to 35°C and object temperature above 0°C				
Measurement	Spotmeter:5; Line:2; Area:5				
Auto tracking	1. Max/ Min temp spot of full screen ; 2. Max/ Min temp spot of analysis object				
Alarm	Max temp alarm; Min temp alarm				
Color Palettes	8:White Hot, Fulgurite, Iron Red, Hot Iron, Medical, Arctic, Rainbow 1, Rainbow 2				
storage					
Image storage	In camera and TF card, JPG with temp info				
Video format without temp info	H.264 with frame rate 25Hz (audio signal included)				
Video format with temp info	.irgd with frame rate 25Hz (audio signal excluded)				
Video Streaming	Yes, transferred to PC or mobile via USB or Wi-Fi				
Visual Camera					
Visual Camera	Resolution:5MP/ 640×480, alternative; Fixed; FOV 25°×19°				
Interfaces					
Data communication interface	MICRO USB 2.0, MICRO HDMI, Power(12V), TF card(Standard 16G, up to 32G) ; WiFi/Laser				
Bluetooth	N/A				Yes
Power system					
Battery type/Operating time	Rechargeable Li-ion battery (7.4V), ≥4h; 4h in camera, 5h in dual-bay charger; Automatic shut-down and sleeping mode				
Environmental Parameters					
temperature range	Operating: -10℃~50℃; Storage: -40℃~70℃				
Encapsulation	IP54				
Shock	30g 11ms (IEC 60068-2-27)				
Vibration	10HZ~150HZ~10HZ 0.15mm (IEC 60068-2-6)				
Certification	CE, FCC, ROHS				
Weight	735g	735g	840g	840g	735g
Dimensions(mm)	274×97×78	274×97×78	274×106×78	274×110×78	274×91×78

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