Guide sensmart D Series Intelligent Thermal Camera Owner's Manual

**D Series Intelligent
Thermal Camera
Intelligent Operation Affordable Price**

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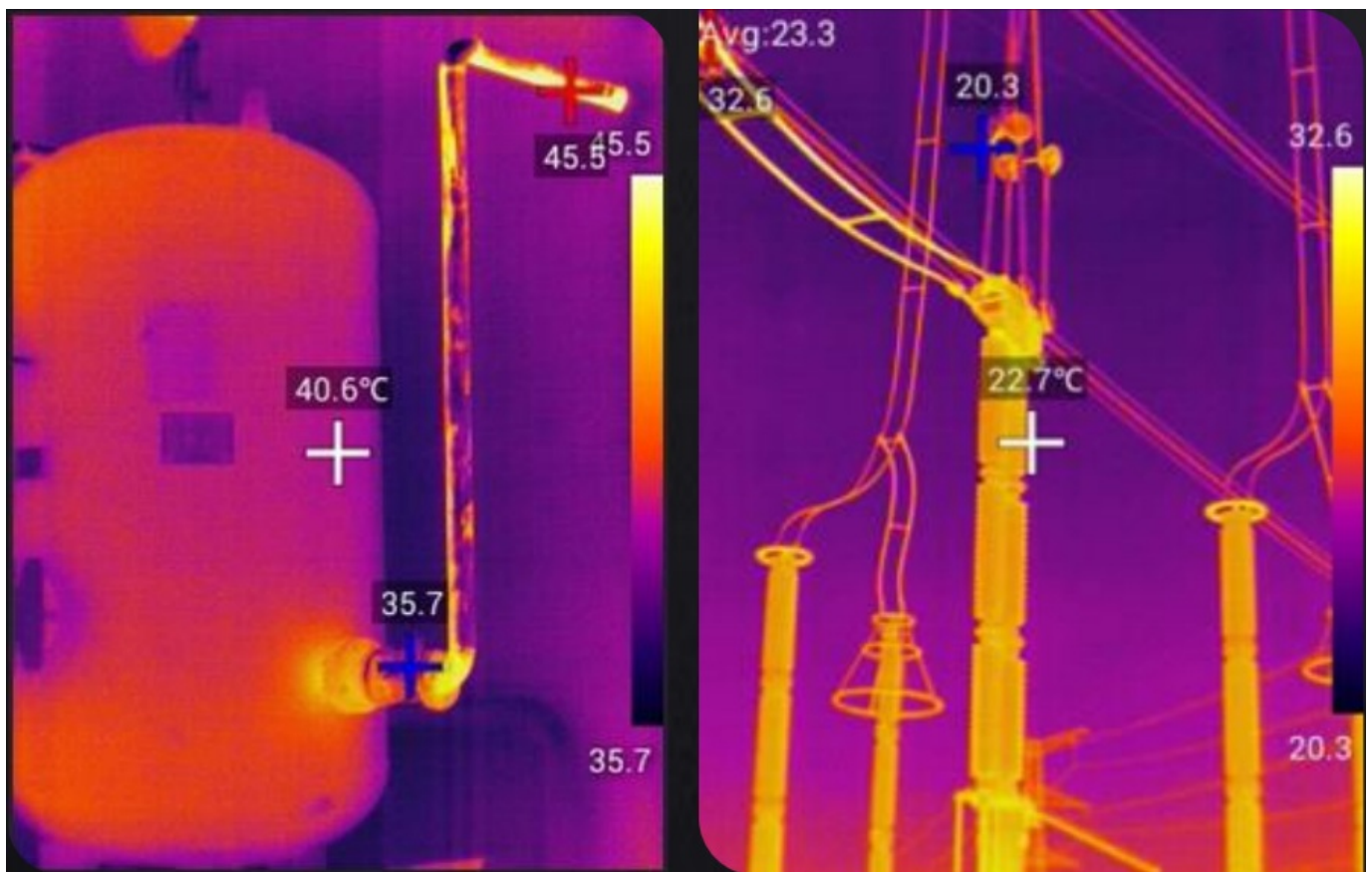
Introduction

D Series intelligent thermal camera is simple, compact and ergonomic. It equipped with 4-inch high-brightness touchscreen, Android operating system, user-friendly UI for easy operation. And every step has professional tips, so that the first user can become an expert quickly. With high IR resolution and various powerful functions, D series is the ideal thermal inspection tool for power inspection, equipment maintenance and building diagnostic applications.

Features and Benefits

- 4" high light touch screen, all operation can be completed the touch screen
- You can choose the proper lens for different occasions
- Built-in illuminator, take visible photos in the low lighting environment
- Removable SD card, Up to 32G storage capacity
- Wi-Fi communication, share IR images and findings immed
- Connected with mobile terminal to take IR photo, to achievmulti screen control

Application

- Mechanical maintenance
- Building diagnostic
- Telecom equipment inspection
- Electrical equipment inspection
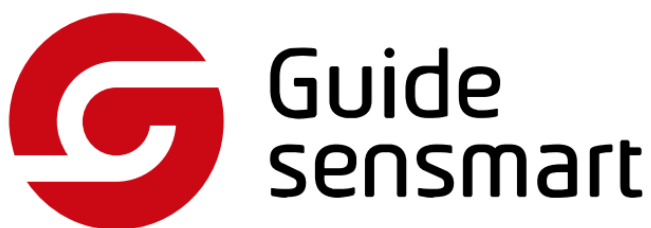
Specifications

Model	D192F	D192M	D384F	D384M	D384A
Imaging and optics					
Detector type	VOx				
Infrared resolution	192 × 144@25μm		384 × 288@25μm		
Super resolution technology	/		Yes, Upgrade to 768 × 576		
Wavelength range	7.5 to 14μm				
Focal length	7 mm		19 mm		15 mm
Field of view	38° × 29°		28° × 22°		35° × 27°
Minimum object distance	1 m	0.5 m	1 m	0.5 m	0.4 m
D:S	289:1		775:1		625:1
NETD	≤50 mK		≤45 mK		≤40 mK
Infrared frame rate	25 Hz / 9 Hz				
Focusing mode	Focus-free	Manual	Focus-free	Manual	Electric / Automatic
Digital zoom	1.1x to 4x				
Shot recognition	/	Manual	/	Manual	/
Measurement and analysis					
Measurement range	-20℃ to 350℃	-20℃ to 150℃, 100℃ to 650℃, Optional 650℃ to 1500℃ (High temperature lens is required)	-20℃ to 350℃	-20℃ to 150℃, 100℃ to 650℃, Optional 650℃ to 1500℃ (High temperature lens is required)	-20℃ to 150℃, 100℃ to 650℃
Measurement accuracy	±2℃ or ±2%, whichever is greater				
Analyzed target	Spot × 5, Line × 2, Area × 5				

Tracking / Alarm	Full screen maximum, minimum and average temperature tracking; The maximum, minimum and average temperature tracking of analyzed target; full screen temperature threshold alarm (image)	
Isothermals	Available	
Temperature measuring parameters	Emissivity, reflected temperature, dew point, target distance, humidity	
Image display		
Display screen	4″ LCD	
Digital camera	5 MP	
Image mode	IR, VIS, MIF and PIP	
Image adjustment	Automatic, semi-automatic, manual	
Color palettes	White Hot, Fulgurite, Iron Red, Hot Iron, Medical, Arctic, Rainbow 1, Rainbow 2	
Storage and transmission		
Storage media	Local storage (16 GB) and TF card (16 GB and up to 128 GB)	
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	Micro USB, Micro HDMI, DC (12V) , TF card slot	
Laser	645~655nm, Class 2 laser, 1mW, only indicating the measured target	
Audio	Recording and playback through microphones and speakers respectively	
WIFI	Yes, it can be connected to the mobile terminal for image and real-time video transmission	
Bluetooth	/	Available
Power system		
Battery type	Lithium-ion rechargeable battery	
Battery working time	≥4 hours	
Power management	Timed shutdown and sleep mode	
Charging mode	The device can be charged through desktop charger after shutdown.	
Charging time	5 hours	
Environmental parameters		

Working temperature	-10℃ to 50℃				
Storage temperature	-40℃ to 70℃				
IP rating	IP54				
Certification	CE, FCC, ROHS, KCC, Anatel, UN38.3, MSDS				
Physical parameters					
Weight	≤735 g (with battery)	≤840 g (with battery)	≤735 g (with battery)	≤840 g (with battery)	≤735 g (with battery)
Size (L × W × H)	274 × 97 × 78 mm			274 × 110 × 78 mm	274 × 91 × 78 mm
Software kit	ThermoTools				
Standard	A device, Wrist strap, Lithium-ion battery, Power adapter, Adapter plug, Micro USB cable, Micro HDMI cable, Quick Start Guide, Instructions, Data download card, Capacitive screen gloves, TF card (16 GB) , EPP case		A device, Wrist strap, Lithium-ion battery, Power adapter, Adapter plug, Micro USB cable, Micro HDMI cable, Quick Start Guide, Instructions, Data download card, Capacitive screen gloves, TF card (16 GB) , A carrying case		
Options	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade, Expanded lens	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade, Expanded lens	Lithium-ion battery, Carrying bag, Desktop charger, Tripod interface, Tripod, Sunshade, Bluetooth headset

Optional lens information list

Model	D192M	D384M
Standard Lens		
Focal length	7mm	19mm
FOV	38°*29°	28°×22°
IFOV	3.45mrad	1.29mrad
Min focus distance	0.5m	0.5m
Wide Angle		
Focal length	/	8.8mm
FOV	/	57°×45°
IFOV	/	2.65mrad
Min focus distance	/	0.3m
Ultra-Telephoto		
Focal length	19mm	40mm
FOV	14.4°×10.8°	13.7°×10.3°
IFOV	0.65mrad	0.62mrad
Min focus distance	1m	1m
High Temp		
Temp Measurement Range	650°C~1500°C	

*Technical parameters are subject to change without notice.
For the latest information, please visit our website:
www.guideir.com

Documents / Resources

Guide sensmart D Series Intelligent Thermal Camera [pdf] Owner's Manual
D Series, Intelligent Thermal Camera, D Series Intelligent Thermal Camera, Thermal Camera, Camera

References

- **US Infrared Inc. - Infrared Cameras, Security Systems**
- **Guide Sensmart-Thermal Imaging Camera Manufacturer | Guide Sensmart**