

D Series Intelligent Thermographic IR Camera



Specifications

Model		ISA 160	ISA 400
Imaging Performance			
Detector type		VOx UFPA	
Spectral range		8~14μm	
Pixel size		25μm	
IR resolution		192x144	384x288
NETD		60mK	45mK
Field of view(FOV)		37.8°x28.8°	28.4°x21.5°
Minimum focus distance		0.5m	0.5m
Focal length		7mm/ F1.1	19mm/ F1.0
IFOV		3.45mrad	1.29mrad
*Optical lens	Tele	14.4°x10.8°/ 19mm/ F1.0	13.7°x10.3°/ 40mm/ F1.2
	Wide angle	N/A	57°x45°/ 8.8mm/ F1.0
	High temp	Yes	Yes
Lens installation		Buckle	
Lens identification		Automatic/ manual	
Focus		Manual	
Digital zoom		1.1~4	
Frame rate		50/60Hz	
Visual Camera			
Resolution		5M	
Focus		Fixed	
FOV		25°x19°	
Image Presentation			
Display		Highlight LCD touch screen	

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Screen size	4"	
Resolution	800x480	
FOV	70°	
Color depth	24bits	
Display technology	IPS	
Image modes	IR image, Visual image, MIF, Picture in picture (PIP)	
Measurement Features		
Temperature range	Standard	-20°C~150°C, 150°C~650°C
	*High temp	650°C~1500°C
Accuracy	±2 °C or ±2% of reading for ambient temperature 15°C~35°C and object temperature above 0°C	
Measurement Analysis		
Spotmeter	5	
Line	2	
Area	5(max, min, avg)	
Auto tracking	Full image or object with T _{max} /T _{min}	
Isotherm	Above, below, interval	
Delta T	Yes	
Emissivity correction	Yes: variable from 0.01 to 1.00	
Alarm	Hot/cold spot	
Functions		
Laser	Yes	
Wi-Fi	Yes	
Illuminator	Yes	
Setup		
Color Palettes	8:White Hot, Fulgurite, Iron Red, Hot Iron, Medical, Arctic, Rainbow 1, Rainbow 2	
Language	21	
System setting	Temperature unit, Date and time formats, Watermark, Report	
Image storage		
Image format	JPG with temp info	
Storage Medium	In camera and TF card	
Image Annotations		
Voice annotation	Yes, 60s	
Text annotation	Yes	
Visual image annotation	Yes, up to two images	
Image marker	Yes	
Video storage		
Video format	H.264 without temp info	
Video Streaming	via USB or Wi-Fi	

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Interfaces	
Data communication interface	USB, HDMI, TF card, Power
Audio	Microphone and speaker
USB	Micro USB 2.0
HDMI	Micro HDMI
TF card	16G, up to 32G
Vibration feedback	by vibrating motor
Power system	
Battery type	Rechargeable Li-ion battery (UN38.3 certification)
Battery voltage	7.4V
Operating time	≥4h
Charging temperature	10°C~35°C
Boot time	40s
Charging system	In camera or on separate charger
Charging period	4h in camera, 5h in dual-bay charger
External power supply	12V
Power management	Automatic shut-down and sleeping mode
Environmental Parameters	
Operating temperature range	-10°C~50°C
Storage temperature range	-40°C~70°C
Humidity	<95%, non-condensing
Encapsulation	IP54
*Drop test	2m
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Certification	CE, FCC, ROHS
Physical Characteristics	
Weight	850g (Battery included)
Dimensions	66.6mm×136.5mm×263.9mm
Weight of battery	140g
Dimensions of battery	164mm×44mm×39mm
Color	Red-black
Shipping Information	
Shipping content	<ul style="list-style-type: none"> ◆ Infrared camera with lens ◆ Standard accessories <ul style="list-style-type: none"> · Li-ion Battery (2 pieces) · Power Adapter · Adapter Plug (single choice) · Wrist Strap

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Items marked with * will be available in the next release.

	<ul style="list-style-type: none"> • USB Cable • HDMI Cable • Quick Start Guide • User Manual • Product CD • Accessories List Card • Capacitance Screen Gloves • TF Card (16GB) ◆ Optional accessories <ul style="list-style-type: none"> • Li-ion Battery • Camera Pouch • * Charging Dock • *Tele Lens • *Wide Angle Lens • *High Temp Lens
Shipping Dimensions	517mm×410mm×270mm
Shipping Weight	7.5kg

Pictures of Contents



Infrared camera with lens



Power Adapter



Adapter Plugs



Li-ion Battery



HDMI Cable (2m)



USB Cable (2m)



Wrist Strap



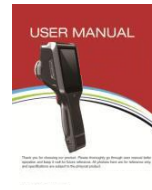
Capacitance Screen Gloves



TF Card(16G)



User Manual



Quick Start Guide



Accessories List Card



Product CD



Camera Pouch



Charging Dock



Optional Lens

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