

High Performance Thermal Imager



Specification Table

Parameter	Range
Imaging and Optical Data	
IR Resolution	80 × 80 pixels
Field of View (FOV)	17° × 17°
Minimum Focus Distance	500mm
Spatial resolution (IFOV)	3.78mrad
Thermal Sensitivity (NETD)	< 0.1°C @ +30°C (+86°F) / 100mK
Image frequency	50Hz
Focus Mode	Manual
Zoom	1 ~ 32x continuous, Digital Zoom
Focal Length	9mm
Focal Plane Array (FPA)	Uncooled Microbolometer
Spectral Range	8 - 14µm
Image Presentation	
Display	2.8 Inch LCD, 240 × 320 pixels
Image Modes	IR Image, Visual Image, Image Fusion
Colour Palettes	IRON, Rainbow, Grey, Grey Inverted
Measurements	
Object Temperature Range	-20°C to +150°C (+4°F to +302°F)
	0°C to +350°C (+32°F to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading (Environment Temperature 10°C to +35°C, Object Temperature >0°C)

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Parameter	Range
Storage of Videos	
Storage Media	8GB Micro SD Card
Video Storage Format	Standard MPEG-4 Encode, 1280×960 @ 30fps, On Memory Card > 60 minutes
Video Storage Mode	IR/Visual Images; Simultaneous Storage of IR and Visual Images
Storage of Images	
Image Storage Format	Standard JPEG, Including Measurement Data, On Memory Card > 6000 Pictures
Image Storage Mode	IR/Visual Images; Simultaneous Storage of IR and Visual Images
Digital Camera	
Built-in Digital Camera	5 Mega Pixels
Built-in Digital Lens Data	FOV 59°
Data Communication Interfaces	
Interfaces	USB-Mini, Audio, HDMI
USB	Data Transfer between Camera and PC
	Live Video between Camera and PC
Video Out	HDMI
Power System	
Battery	Li-Ion Battery, 4 Hours Operating Time
Input Voltage	DC 5V
Charging System	In Camera (AC Adapter)
Power Management	Automatic Shutdown
Environment Data	
Operating Temperature	-15°C to +50°C (5°F to +122°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity (Operating & Storage)	10% ~ 90%
Drop Test	2m
Bump	25g (IEC 60068-2-29)
Vibration	2g (IEC 60068-2-6)
Physical Data	
Camera Weight (Including Battery)	<500g
Camera Size (L × W × H)	224mm × 77mm × 96mm

Part Number Table

Description	Part Number
High Performance Thermal Imager	72-13450

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