



InfraredThermal.com

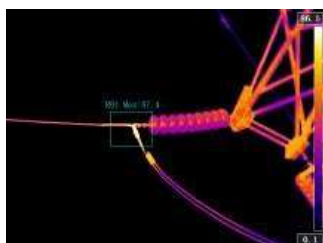
INFRARED & THERMAL INSTRUMENTS

HANDHELD INFRARED THERMAL IMAGER

| 384 | 480 | 640 | 1024



Optional lens : 48° /12° /6° etc.





SPECIFICATIONS

Model	I-384	I-480	I-640	I-1024
Detector type	Uncooled FPA, VOX material			
IR Resolution	384x288	480x360	640x512	1024x768
Thermal Sensitivity/NETD	< 40mK （ @30℃ ）			≤50mK （ @30℃ ）
Spectral Range	8~14μm			
Standard lens	24°			
Optional lens	48 °, 12 °, 6 °, etc			50°, 14°, 7°, etc
Spatial resolution (IFOV)	1.30mrad (24° lens); 2.26mrad (48° lens); 0.68mrad (12° lens); 0.34mrad (6° lens)	0.92mrad (24° lens); 1.87mrad (48° lens); 0.46mrad (12° lens); 0.23mrad (6° lens)	0.66mrad (24° lens); 1.39mrad (48° lens); 0.33mrad (12° lens); 0.16mrad (6° lens)	0.48mrad (24° lens); 0.92mrad (50° lens); 0.24mrad (14° lens); 0.12mrad (7° lens)
Focus	Manual/Automatic/Electric			
Minimum focal distance	0.15m (24° lens); 0.15m (48° lens); 0.3m (12° lens); 1m (6° lens)	0.15m (24° lens); 0.15m (48° lens); 0.3m (12° lens); 2m (6° lens)	0.15m (24° lens); 0.15m (48° lens); 0.3m (12° lens); 2m (6° lens)	0.15m (24° lens); 0.15m (50° lens); 1m (14° lens); 2.5m (7° lens)
Display	5" Outdoor Viewable Display Screen, 800x480		5.8" Outdoor Viewable Display Screen, 1280x768	
Camera recognition	Automatic recognition after replacing the lens			
Temperature measurement				
Object temperature range	-20℃~+150℃ (low temperature range)/0℃~+410℃ (medium temperature range)			
Optional temperature range	+300℃~+650℃/+300℃~+2,000℃/other ranges (high temperature range)			
Temperature measurement accuracy	±2℃ or ±2% of readings			
Viewfinder parameters				
Viewfinder	Built in color 1024x768 pixel viewfinder			
Visible light				
Digital camera	Built-in 500W pixel digital camera with LED light			
Image display				
Palette	10 color palettes			
Touch screen	Capacitive touch screen			
Image mode	Infrared, visible light, picture in picture, image fusion, IMIX			
Super-resolution	Support, increase to 4 times the original image pixels			
Laser				
Laser pointer	Support			
Laser ranging	40 m			
Laser alignment	Automatically display the position on the infrared image			
Wireless transmission				
Bluetooth	Support Bluetooth headset playback			
WIFI	Support,support preview SD card pictures through WIFI			
4G (optional)	Transmit real-time images to mobile phones via 4G, view cloud images			



SPECIFICATIONS

Measurement analysis	
Temperature measurement settings	10 points, 10 boxes, 5 lines at the same time, including maximum/minimum/average values
Full screen maximum/minimum temperature	Support, automatically capture the highest/lowest temperature of the full screen
Optical device transmission correction	Manual/automatic, based on signals from internal sensors
Radiance correction	Automatic, based on input values of emissivity
Atmospheric transfer correction	Automatic, based on input values of distance, atmospheric temperature and relative humidity
Alarm	
Alarm method	Automatic sound and light alarm for the set temperature value/above/below/below
Satellite positioning (optional)	
GPS	For outdoor use, the screen displays the latitude and longitude of the device's location, and the photos taken and saved can be displayed with latitude and longitude in the analysis software
Image storage	
Storage method	32G high-speed SD card
Infrared image format	.jpg (including full temperature data)/.png (including full temperature data)
Visible light image format	.jpg
Infrared video format	H.264 or full-radiation infrared video
Voice annotation	60-second voice annotation, stored with the image
Text Annotation	Preset text can be selected and stored with the image
Video output	
Video output	HDMI
Video output interface	Micro HDMI interface
USB transfer	
USB transfer	Transfer pictures from SD card in the machine to PC via USB
Power system	
Battery type	Removable rechargeable lithium battery
Power supply voltage	DC12V
Battery operating time	General use > 3 hours at 25°C
Charging method	Double-bay charger
Power saving mode	Support sleep mode
Physical parameters	
Weight	1.5kg (including battery)
Dimensions	191x115x172mm
Environmental parameters	
Operation temperature	-20°C~55°C
Storage temperature	-40°C~70°C
Humidity (operating and storage)	≤ 95%, non-condensing
Packaging level	IP54
Tripod installation	UNC1/4"-20