



Infraredthermal.com

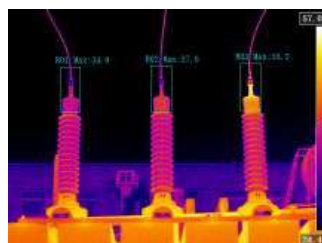
INFRARED AND THERMAL INSTRUMENTS

ACOUSTIC + THERMAL IMAGING CAMERA

AIR 384 AIR 640



Optional lens : 48° /12° /6° etc.





SPECIFICATIONS

Model	AIR 384	AIR 640
Detector type	Uncooled FPA, VOX	
IR Resolution	384x288	640x512
Thermal Sensitivity (NETD)	≈30mK	
Spectral Range	8~14μm	
Standard lens	24°	
Optional lens	48 °, 12 °, 6 °, etc	
Spatial resolution (IFOV)	1.30mrad (28° lens);2.26mrad (48° lens); 0.68mrad (12° lens);0.34mrad (6° lens)	0.66mrad (24° lens);1.39mrad (48° lens); 0.33mrad (12° lens);0.16mrad (6° lens)
Focus	Manual/Automatic/Electric	
Minimum focal distance	0.15m (28° 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)
Display	5" Visible Display Screen 800x480	5.8" Visible Display Screen 1280x768
Touchscreen	Supported	
Lens Adjustment Range	≤ 135°	
Lens Identification	Automatic	
Acoustic Image Parameters		
Microphone	136 Digital Si MIC Array	
Frequency bandwidth	2kHz ~ 100kHz	
Detection Distance	0.3-130m (related to the size of the sound source signal)	
Pseudo-color audio and video mode	Grey-scale, Rainbow, Ironbow, Fusion etc.	
Sound Intensity display	Highest Sound Intensity Point	
Acoustic detection mode	Air /Gas Leak Detection Mode / Partial Discharge Detection Mode	
Sound image frequency	25Hz	
Minimum leakage	0.5m Min. Detectable leak of 0.078ml/s @ 0.6MPa 1m Min. Detectable leak of 0.122ml/s @ 0.5MPa	
Sound Detection Range	Lower limit: -15 dB; Upper limit: 120 dB	
'PRPD' Spectrum	Supported	
MIC Operation Rate	200kHz	
Air Leak Detection & Display	Supported	
Gas Leak Detection & Display	Supported	
Air & Gas Leak Level Display	Supported	
Partial Discharge Detection	Supported	
Partial Discharge Type	Contact Discharge, Suspension Discharge, Surface Discharge, Partial Discharge	
Acoustic 'Sound' Measurement	(Supported (Contact & Non Contact))	
Temperature measurement		
Object temperature range	20°C to 150°C (Low temperature range) 0°C to 400°C (Med. temperature range) 300°C- 650°C(High temperature range)	
Optional temperature range	300°C~+2000°C (Optional high temperature range)	



SPECIFICATIONS

Temperature measurement accuracy	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$, of readings
Visible light	
Digital camera	5MP Camera - Built In LED Light
Range measurement laser	
Laser Range	40m
Laser Range Accuracy	$\pm 1\text{cm}$ or 1% of the Measured Value
Laser alignment	Position 'Overlay' displayed on Infrared Image
Image display	
Palette	10 color palettes
Picture in Picture (PIP)	Supported
IMIX	Supported
Image fusion	Supported
Isotherm line	Supported
Super resolution	Supported
GPS	Image GPS Data Supported
Video and audio mode	
Video and audio mode	Sound and image mode, infrared / thermal imaging mode, sound and heat mixed mode
Wireless transmission	
WIFI	Supported via WIFI
4G	Supported via 4G
Bluetooth	Supported
USB transmission	
USB transmission	Transfer images from the SD card in the machine to the PC via USB
Measurement analysis	
Temperature Measurement Settings	Supports 10points, 10 areas & 5 lines (Min/Max & Average)
Min/Max Temp. Display	Supported
Delta T Correction	Supported
Optic Correction	Manual / Automatic
Emissivity Correction	Manual
Atmospheric Correction	Automatic
User interface	
Text annotation	Supported (Pre-Set List Included)
Voice annotation	Supported
Image storage	
Storage method	32G high-speed SD card
Infrared image format	.jpg (Includes Temperature Data) .png (Includes Temperature Data)
Visible image format	.jpg
Infrared video format	H.264 or full-radiometric infrared video
Video output	
Video output	HDMI



SPECIFICATIONS

Video Output	Micro HDMI
System Details	
Alarm Mode	Automatic Sound / Light Alarm (Min-Max Temperature)
System Power	
Battery Type	Removable - Rechargeable Lithium Ion
Power Supply	DC 12V
Battery Life	General Use > 3 Hours @ 25°C
Battery Charger	Dual Battery Charger (Included)
Physical parameters	
Weight	1.48kg (With Battery & Lens)
Dimensions	192x173x116mm
Environmental parameters	
Operating temperature	-20°C~70°C
Storage temperature	-40°C~70°C
Humidity (Operating / Storage)	≤95% - Non-Condensing
Protection Rating	IP54
Tripod Mount	¼"-20 (Standard Tripod Mount)