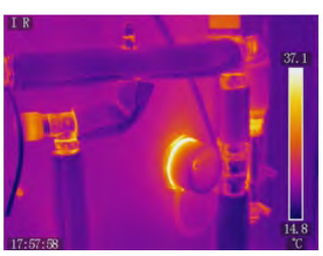
S310
Professional Infrared Camera

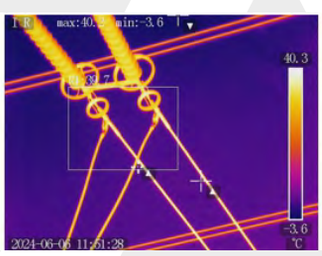
- Onboard image enhancement ensures crisp and vibrant thermal images
- Expanded temperature measurement range for fast detection of hot spots and hidden anomalies in industrial environments
- Suitable for a wide range of PPM, industrial inspections, process control and failure diagnosis applications

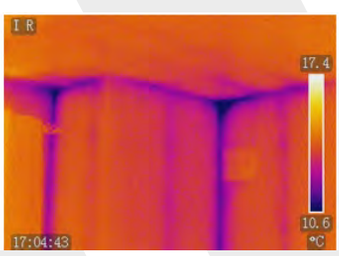
FIRA VISION

INFRARED THERMOGRAPHY CAMERAS

SPECIFICATION	
Model	S310
Imaging & Optical	
Detector Type	Uncooled Microbolometer
Resolution	384×288@17μm
Super Resolution	Up to 768X576 pixels
Spectral Range	7.5 μm ~ 14 μm
Image Frequency	50Hz
NETD	≤40mk@30°C
FOV	24° × 18°
Minimum Focus Distance	15cm
Optional Lens	47° x 36.2° / 12.4° x 9.33° / 6.92° x 5.19°
IFOV	0.90mrad
Digital Zoom	1x-8x continuous zoom
Focus	Manual/Laser Automatic/Contrast Automatic
Display	4.3 inch Touch display screen, resolution 800*480
Digital Camera	5 Megapixel (Optional 13 Megapixel), with built-in LED lights
Image Mode	Infrared, Visible light image, PNP, Image enhancement mode(MFI), Thermal superposition image
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic







S310
Professional Infrared Camera

SPECIFICATION	
Measurement & Analysis	
Temperature Measurement Range	-20°C~650°C (Optional up to 1500°C)
Temperature Accuracy	Temperature measurement range from 0'C to 100°C, is ±1°C; Other temperature measurement ranges is ± 2°C or ± 2%, take the maximum value
Temperature Measurement Mode	Real-time 20 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)
Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Rangefinder/Laser pointer	Distance shown on Screen
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
Image Storage Mode	Infrared images and Digital camera images are saved simultaneously
Thermal Image Format	JPEG format, 16bit Radiometric IR digital image. Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format, H.264 format for Digital camera video recording
Voice	Supports 60 seconds of voice annotation, stored together with the image
Text Annotation	Preset text comments with editable text
Programmable button	2 Programmable buttons
Transfer Interfaces	USB Type C, TF card, Bluetooth, and WiFi, HDMI Video out put
Software	IR Analyser for PC and Andriod-full analysis and reporting software, live stream on PC/Phone
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 4 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤850g(With a standard lens and battery)
Dimensions	245×125×120mm
Package Includes	IR thermal imager, rechargeable lithium battery * 2, Charging Dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration Certificate, User manual, 2 Years Warranty card, Carry Case

FIRA VISION

THERMOGRAPHY CAMERAS

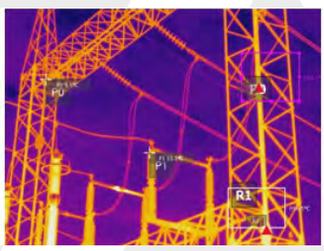
S610
Professional Infrared Camera

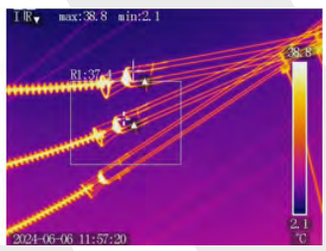
- Onboard image enhancement ensures crisp and vibrant thermal images
- Expanded temperature measurement range for fast detection of hot spots and hidden anomalies in industrial environments
- Suitable for a wide range of PPM, industrial inspections, process control and failure diagnosis applications

FIRA VISION

INFRARED THERMOGRAPHY CAMERAS

SPECIFICATION	
Model	S610
Imaging & Optical	
Detector Type	Uncooled Microbolometer
Resolution	640×480@17μm
Super Resolution	Up to 1280X960 pixels
Spectral Range	7.5 μm ~ 14 μm
Image Frequency	50Hz
NETD	≤40mk@30°C
FOV	24° × 18°
Minimum Focus Distance	15cm
Optional Lens	47° x 36.2° / 12.4° x 9.33° / 6.92° x 5.19°
IFOV	0.90mrad
Digital Zoom	1x-8x continuous zoom
Focus	Manual/Laser Automatic/Contrast Automatic
Display	4.3 inch Touch display screen, resolution 800*480
Digital Camera	5 Megapixel (Optional 13 Megapixel), with built-in LED lights
Image Mode	Infrared, Visible light image, PNP, Image enhancement mode(MFI), Thermal superposition image
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic





S610
Professional Infrared Camera

SPECIFICATION	
Measurement & Analysis	
Temperature Measurement Range	-20°C~650°C (Optional up to 1500°C)
Temperature Accuracy	Temperature measurement range from 0'C to 100°C, is ±1°C; Other temperature measurement ranges is ± 2°C or ± 2%, take the maximum value
Temperature Measurement Mode	Real-time 20 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)
Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Rangefinder/Laser pointer	Distance shown on Screen
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
Image Storage Mode	Infrared images and Digital camera images are saved simultaneously
Thermal Image Format	JPEG format, 16bit Radiometric IR digital image. Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format, H.264 format for Digital camera video recording
Voice	Supports 60 seconds of voice annotation, stored together with the image
Text Annotation	Preset text comments with editable text
Programmable button	2 Programmable buttons
Transfer Interfaces	USB Type C, TF card, Bluetooth, and WiFi, HDMI Video out put
Software	IR Analyser for PC and Andriod-full analysis and reporting software, live stream on PC/Phone
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 4 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤880g(With a standard lens and battery)
Dimensions	245×125×120mm
Package Includes	IR thermal imager, rechargeable lithium battery * 2, Charging Dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration Certificate, User manual, 2 Years Warranty card, Carry Case

FIRA VISION

THERMOGRAPHY CAMERAS

M610
Professional Infrared Camera

- Onboard image enhancement ensures crisp and vibrant thermal images
- Rotatable screen ensures more operation flexibility
- Expanded temperature measurement range for fast detection of hot spots and hidden anomalies in industrial environments
- Suitable for a wide range of PPM, industrial inspections, process control and failure diagnosis applications

SPECIFICATION	
Model	M610
Imaging & Optical	
Detector Type	Uncooled Microbolometer
Resolution	640×480@17μm
Super Resolution	Up to 1280X960 pixels
Spectral Range	7.5 μm ~ 14 μm
Image Frequency	50Hz
NETD	≤50mk@30°C
FOV	24° × 18°
Minimum Focus Distance	15cm
Optional Lens	47° x 36.2° / 12.4° x 9.33° / 6.92° x 5.19°
IFOV	0.68mrad
Digital Zoom	1x-10x continuous zoom
Focus	Manual/Laser Automatic/Contrast Automatic
Display	5.5 inch Touch display screen, resolution 800*480
Viewfinder	Built-in 0. 5 inch color OLED display
Digital Camera	5 Megapixel (Optional 13 Megapixel), with built-in LED lights
Image Mode	Infrared, Visible light image, PNP, Image enhancement mode(MFI), Thermal superposition image
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic
Measurement & Analysis	
Temperature Measurement Range	-20°C~650°C (Optional up to 1500°C, 2000°C)
Temperature Accuracy	Temperature measurement range from 0'C to 100°C, is ±1°C; Other temperature measurement ranges is ± 2°C or ± 2%, take the maximum value
Temperature Measurement Mode	Real-time 20 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)

FIRA VISION

THERMOGRAPHY CAMERAS

M610
Professional Infrared Camera

SPECIFICATION	
Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Rangefinder/Laser pointer	Distance shown on Screen
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
Image Storage Mode	Infrared images and Digital camera images are saved simultaneously
Thermal Image Format	JPEG format, 16bit Radiometric IR digital image. Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format, H.264 format for Digital camera video recording
Voice	Supports 60 seconds of voice annotation, stored together with the image
Text Annotation	Preset text comments with editable text
Drawing	Drawing on IR Image
Programmable button	2 Programmable buttons
Transfer Interfaces	USB Type C, TF card, Bluetooth, and WiFi, HDMI Video out put
Software	IR Analyser for PC and Andriod-full analysis and reporting software, live stream on PC/Phone
4G	Yes(Optional)
GPS	Yes
Compass	Electronic compass information save along with the map(Optional)
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 4 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤1.25kg(With a standard lens and battery)
Dimensions	215×137×95mm
Package Includes	IR thermal imager, rechargeable lithium battery * 2, Charging Dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration Certificate, User manual, 2 Years Warranty card, Carry Case

FIRA VISION

THERMOGRAPHY CAMERAS

MX1200
Expertise Level Infrared Camera

- High sensitivity 1280x1024 Resolution detector.
- Rotatable screen ensures more operation flexibility
- Accurate, powerful easy to use features, measurement range for fast detection of hot spots and hidden anomalies in industrial environments
- Suitable for Electric power, machinery maintenance, metallurgy, petrochemical, building inspection and other application fields.

FIRA VISION

INFRARED THERMOGRAPHY CAMERAS

SPECIFICATION	
Model	MX1200
Imaging & Optical	
Detector Type	Uncooled Microbolometer
Resolution	1280×1024@12μm
Super Resolution	Up to 2560X2048 pixels
Spectral Range	8 μm ~ 14 μm
Image Frequency	50Hz
NETD	≤30mk@30°C
FOV	28.7° × 23.2°
Lens Focal Length	30mm
Minimum Focus Distance	15cm
Optional Lens	45° x 34° / 12.42° x 9.33° / 6.92° x 5.19°
IFOV	0.4mrad
Digital Zoom	1x-45x continuous zoom
Focus	Manual/Laser Automatic/Contrast Automatic
Display	5.5 inch Touch display screen, resolution 1920*1080
Viewfinder	Built-in 0.5 inch HD color OLED display, resolution 1920*1080
Digital Camera	13 Megapixel, with built-in LED lights
Image Mode	Infrared, Visible light image, PNP, Image enhancement mode(MFI), Thermal superposition image
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic
Measurement & Analysis	
Temperature Measurement Range	-20°C~650°C (Optional up to 1500°C, 2000°C)
Temperature Accuracy	Temperature measurement range from 0°C to 100°C, is ±1°C; Other temperature measurement ranges is ± 2°C or ± 2%, take the maximum value
Temperature Measurement Mode	Real-time 35 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)

MX1200
Expertise Level Infrared Camera

SPECIFICATION	
Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Rangefinder/Laser pointer	Distance shown on Screen
Image Storage and Transfer	
Image Storage	TF card, standard 128GB
Image Storage Mode	Infrared images and Digital camera images are saved simultaneously
Thermal Image Format	JPEG format, 16bit Radiometric IR digital image. Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format, H.264 format for Digital camera video recording
Voice	Supports 60 seconds of voice annotation, stored together with the image
Text Annotation	Preset text comments with editable text
Drawing	Drawing on IR Image
Programmable button	2 Programmable buttons
Transfer Interfaces	USB Type C, TF card, Bluetooth, and WiFi, HDMI Video out put
Software	IR Analyser for PC and Andriod-full analysis and reporting software, live stream on PC/Phone
5G	Yes(Optional)
GPS	Yes
Compass	Electronic compass information save along with the map(Optional)
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 3.5 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤1.5kg(With a standard lens and battery)
Dimensions	216×137×96.5mm
Package Includes	IR thermal imager, rechargeable lithium battery * 2, Charging Dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration Certificate, User manual, 2 Years Warranty card, Carry Case

FIRA VISION

INFRARED CAMERAS

A128
Industrial Acoustic Camera

- The A128 acoustic camera uses a high-precision microphone array and ultrasonic sound source positioning technology.
- It displays the distribution status of sound sources in space, quickly identify Partial Discharge, Pressure gas leaks, Mechanical faults and improve inspection efficiency and maintenance times

SPECIFICATION	
Model	A128
Acoustic Properties	
Number of Microphones	128 Low-noise MEMS microphones, real-time sound visualization
Dynamic Range	30~120dB
Sampling Rate	192KHz
Working Distance Range	0.5~120 meters
Bandwidth	2~96KHz
Minimum Frame Rate	25Fps
Mode	Gas mode/ Partial discharge mode/Intelligent Noise Cancellation mode
Visible Light Camera	
Digital Camera	5MP
Field of view (FOV)	62°× 49°
Display	
Screen	5inch 800×480 LCD Touch screen
Image Mode	Acoustic and Visible Light Overlay
Sound Source Mode	Supports Single Source and Multi-Source Modes
Status Display	Sound Source Mode, dB Value, PRPD Diagram, Frequency Domain, Real time frequency Graph
Image Storage and Transfer	
Image Storage	Standard SD card 64G (maximum support 256G)
Image Browsing	Thumbnail View
Video Compression/Decompression	H.264 standard
Image Format	JPEG
Video Format	AVI
Comment	Text annotation, 60s Sound Annotation
GPS	Automatic GPS Image Tagging
Interfaces	USB Type-C, HDMI, SD card, WiFi, Bluetooth, 4G
Software	Professional management software, data export, one-click report generation, data browsing

FIRA VISION

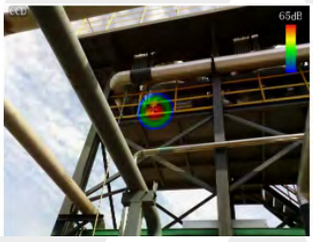
ACOUSTIC IMAGING CAMERA

A128
Industrial Acoustic Camera

SPECIFICATION	
Power Supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 3 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-20°C~70°C
Humidity (Operating & Storage)	95% relative humidity
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤1.5kg (With battery)
Dimensions	311×170×130mm
Package Includes	Acoustic camera, rechargeable lithium battery * 2, Charging Dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration Certificate, User manual, 2 Years Warranty card, Carry Case






ACOUSTIC IMAGING CAMERA

AIR132
Infrared Acoustic Camera

- The A128 acoustic camera uses a high-precision microphone array and ultrasonic sound source positioning technology.
- Combine with HD 640*480 IR detector with fusion imaging display acoustic and IR images together
- It displays the distribution status of sound sources in space, quickly identify Partial Discharge, Pressure gas leaks, Mechanical faults and improve inspection efficiency and maintenance times

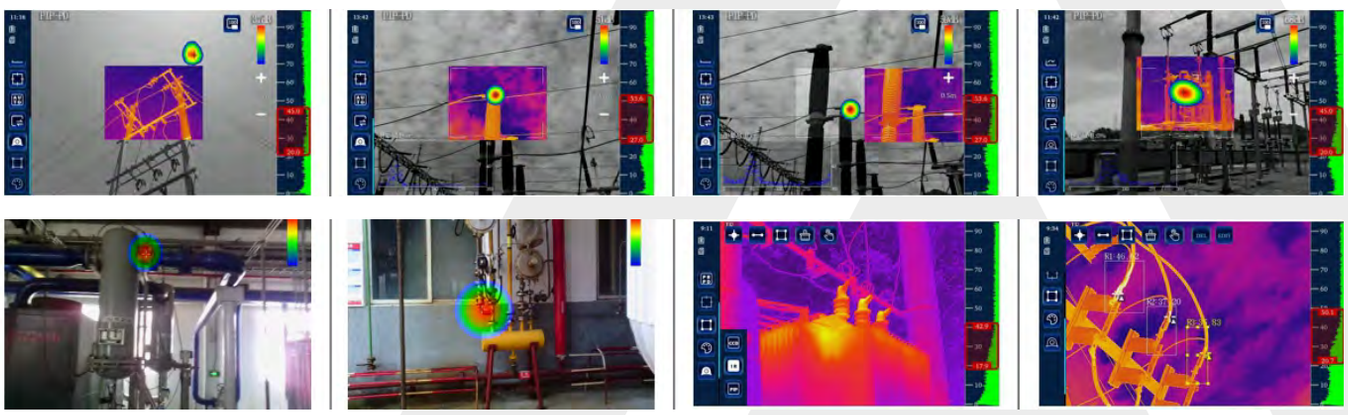
FIRA VISION

ACOUSTIC IMAGING CAMERA

SPECIFICATION	
Model	AIR132
Acoustic Properties	
Number of Microphones	132 Low-noise MEMS microphones, real-time sound visualization
Dynamic Range	30~120dB
Sampling Rate	200KHz
Working Distance Range	0.5~120 meters
Bandwidth	2~100KHz
Minimum Frame Rate	30Fps
Mode	Gas mode/ Partial discharge mode/Intelligent Noise Cancellation mode/Thermal/Fusion
Infrared Camera	
IR Resolution	640*480
Temperature Range	-20℃~550℃
Accuracy/FOV/Frame Rate	±2℃ or ±2% /29°/30Fps
Max Measurement Distance	30m
Temperature Measurement Mode	Real-time 20 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)
Pallettes	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Visible Light Camera	
Digital Camera	5MP
Field of view (FOV)	62°× 49°
Display	
Screen	5inch 800×480 LCD Touch screen
Image Mode	Acoustic and Visible Light Overlay
Sound Source Mode	Supports Single Source and Multi-Source Modes
Status Display	Sound Source Mode, dB Value, PRPD Diagram, Frequency Domain, Real time frequency Graph

AIR132
Infrared Acoustic Camera

SPECIFICATION	
Image Storage and Transfer	
Image Storage	Standard SD card 64G (maximum support 256G)
Image Browsing	Thumbnail View
Video Compression/Decompression	H.264 standard
Image Format	JPEG
Video Format	AVI
Comment	Text annotation, 60s Sound Annotation
GPS	Automatic GPS Image Tagging
Interfaces	USB Type-C, HDMI, SD card, WiFi, Bluetooth, 4G
Software	Professional management software, data export, one-click report generation, data browsing
Power Supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 3 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-20°C~70°C
Humidity (Operating & Storage)	95% relative humidity
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤1.5kg (With battery)
Dimensions	311×170×130mm
Package Includes	Acoustic camera, rechargeable lithium battery * 2, Charging Dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration Certificate, User manual, 2 Years Warranty card, Carry Case



FIRA VISION

ACOUSTIC IMAGING CAMERA

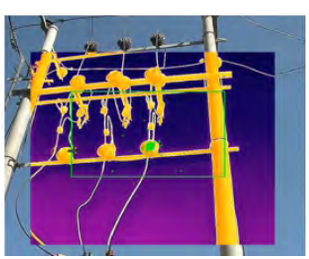
CoroVision-CV640 Infrared Corona Camera

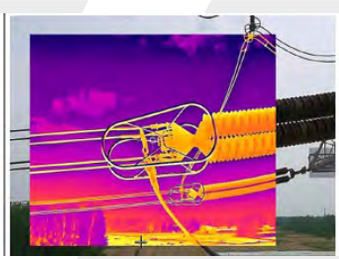
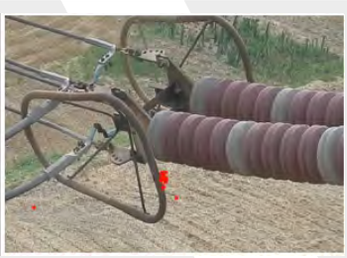
- The CoroVision-CV640 uses an ultra-high sensitivity solar blind UV camera for high precision partial discharge quantisation detection.
- Multi spectral – Combines a solar blind UV camera, Visual camera and Thermal camera along with a laser range finder
- CoroVision-CV640 algorithm processing allows the three-image Fusion display.

FIRA VISION

CORONA IMAGING CAMERA

SPECIFICATION	
Model	CoroVision-CV640
UV Properties	
Spectral Range	240 to 280nm
UV Sensitivity	≤3.0x10^{-18}Watt/cm2
Field of view	22° x 16°
Resolution	1280×720
Focus Type	Ultraviolet/visible light fusion zooming, up to 10X
Focus Range	<0.5m to Infinity
Corona Measure Method	Intensity based count, Calibrated for irradiances value of selected area
Threshold Mask	Useful range 20-100%
UV Transparency	0-100%
UV False Color Selection	3 pre-set colors
UV Integration	Adjustable period, Summation or Noise Reduction
Max. Detection Distance	≥50m
Laser Range Finder	≥1~100m
Infrared Camera	
Detector Type	Vox Microbolometer
IR Resolution	640*512
Wavelength Range	8 -14μm
NETD	≤30mK
Temperature Range	-20℃~550℃
Accuracy	±2℃ or ±2%
Focus Distance	13mm
Temperature Measurement Mode	Real-time area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement)
Pallettes	8 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)



CoroVision-CV640
Infrared Corona Camera

SPECIFICATION	
Visible Light Camera	
Resolution	1920 x 1080
Zoom	10X Optical Zoom+12X Digital Zoom
Sesitivity	≤0.1 Lux
Display	
Screen	5.5 inch LCD touch display, Manual or auto brightness up to 1000cd/m^2
Image mode	Combine UV+Visible, UV+IR, UV only, IR only, Visible only
UV Overlay Accuracy	<1 Milliard deviation
Image Storage and Transfer	
Image Storage	Standard SD card 64G (maximum support 256G)
Image/Video Browsing	Thumbnail View
Video Compression/Decompression	H.264 standard
Image Format	JPEG
Video Format	AVI
Comment	Text annotation, 60s Sound Annotation
GPS	Automatic GPS Image Tagging
Interfaces	USB Type-C, HDMI, SD card, WiFi, Bluetooth, 4G
Software	Professional management software, data export, one-click report generation, data browsing
Power Supply	
Battery Type	Replaceable & Rechargeable Lithium Ion
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 3 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-20°C~70°C
Humidity (Operating & Storage)	92% relative humidity
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤1.8kg (With battery)
Dimensions	230×158×60mm
Package Includes	Corona camera, rechargeable lithium battery * 2, Charging dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration certificate, User manual, 2 Years warranty card, Carry case

FIRA VISION

CORONA IMAGING CAMERA

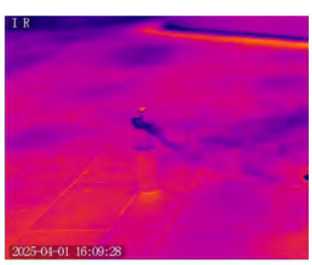
GD88
Uncooled Optical Gas Imaging

- Onboard image enhancement ensures crisp and vibrant thermal images
- Capable of both gas detection and radiometric temperature measurement for thermal inspections
- Suitable for a wide range of electric power utilities, oil and natural gas operations, chemical, manufacturing facilities, food and agriculture industry

FIRA VISION

OPTICAL GAS IMAGING

SPECIFICATION	
Model	GD88
Imaging & Optical	
Detector Type	Uncooled Microbolometer
Resolution	640×512@17μm
Super Resolution	Up to 1280X1024 pixels
Spectral Range	7.0 μm ~ 14 μm
Image Frequency	50Hz
NETD	≤23mk@30°C
FOV	20.8° × 16.6°
Minimum Focus Distance	30cm
IFOV	0.60mrad
Digital Zoom	1x-16x continuous zoom
Focus	Manual
Detectable Gases	Methane, Freon, Sf6, Ammonia, Propene(HFO-1234yf), Ethylene, Nitric Oxide, Sulfur Dioxide, Phenol, etc.
ATEX Proof	Ex ic nc IIC T4 Gc
Display	4.3 inch Touch display screen, resolution 800*480
Digital Camera	5 Megapixel with built-in LED lights
Image Mode	Infrared mode, High sensitivity mode, Image enhancement mode(MFI)
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic



GD88
Uncooled Optical Gas Imaging

SPECIFICATION	
Measurement & Analysis	
Temperature Measurement Range	-20°C~650°C
Temperature Accuracy	Temperature measurement range from 0'C to 100°C, is ±1°C; Other temperature measurement ranges is ± 2°C or ± 2%, take the maximum value
Temperature Measurement Mode	Real-time 20 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)
Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Rangefinder/Laser pointer	Distance shown on Screen
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
Image Storage Mode	Infrared images and Digital camera images are saved simultaneously
Thermal Image Format	JPEG format, 16bit Radiometric IR digital image. Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format, H.264 format for Digital camera video recording
Voice	Supports 180 seconds of voice annotation, stored together with the image
Text Annotation	Preset text comments with editable text
Programmable button	1 Programmable buttons
Transfer Interfaces	USB Type C, TF card, Bluetooth, and WiFi, HDMI Video out put
Software	IR Analyser for PC and Andriod-full analysis and reporting software, live stream on PC/Phone
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 4 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤1.1kg(With lens and battery)
Dimensions	308×124×197mm
Package Includes	IR Camera, IR filter, rechargeable lithium battery * 2, Charging Dock, Power adapter, USB cable, TF card, Card reader, Packing list, Calibration certificate, User manual, 2 Years warranty card, Carry case

FIRA VISION

OPTICAL GAS IMAGING

GD10
VOCs Optical Gas Imaging

- 320x256 Resolution Cooled IR detector
- ATEX Certified for use in harsh environments
- Intelligent innovative gas quantification analytics
- Suitable for detecting gas emissions in complex systems including refineries, petrochemical facilities, natural gas well pads, compression stations, and power generation plants.

ATEX

FIRA VISION

OPTICAL GAS IMAGING

SPECIFICATION	
Model	GD10
Imaging & Optical	
Detector Type	FPA, Cooled InSb
Resolution	320×256@30μm
Spectral Range	3.2 μm~3.5 μm
Start Up Time	≤ 6 minutes
Gas Detection Sensisitivity	0.001ml/s
Image Frequency	50Hz
NETD	≤15mk@30°C
FOV	18° × 14°
Minimum Focus Distance	30cm
Optional Lens	15.19°x 12.18 / 9.37°x 7.32°
IFOV	1 mrad
Digital Zoom	1x-8x continuous zoom
Focus	Manual/Electric/Automatic
ATEX Proof	Ex ic nc op II C T4 Gc
Display	5 inch Touch display screen, resolution 800*480
Digital Camera	5 Megapixel with built-in LED lights
View Finder	Built-in 0.5 inch color OLED display(800*600)
Image Mode	Infrared mode, High sensitivity mode, Visible camera
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic
Laser Pointer	Yes

GD10
VOCs Optical Gas Imaging

SPECIFICATION	
Measurement & Analysis	
Temperature Measurement Range	-20°C~350°C
Temperature Accuracy	± 2°C or ± 2%, take the maximum value
Detectable Gases	Methane, Ethane, Propane, Butane, Ethylene, Propylene, Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK,MIBK, Octane, Pentane, 1-Pentene, Toluene , Xylene
Temperature Measurement Mode	Movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)
Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
IR Image Format	JPEG Format with infrared raw measurement data images
Image Browsing	Thumbnail View
Video Recording	Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format
Voice	Supports 60 seconds of voice annotation, stored together with the image
Transfer Interfaces	USB Type C, TF card, WiFi, HDMI Video out put
Software	IR Analyser for PC-full analysis and reporting software
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (8.2V 7000mAh 58.8Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 2.5 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤2.8kg(With standard lens and battery)
Dimensions	349×195×170mm
Package Includes	IR Camera, rechargeable lithium battery * 2, Charging dock, Power adapter, USB cable, TF card, Card reader, Packing list, Calibration certificate, User manual, 2 Years warranty card, Carry case

FIRA VISION

OPTICAL GAS IMAGING

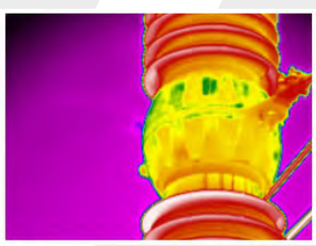
GD20
SF6 Optical Gas Imaging

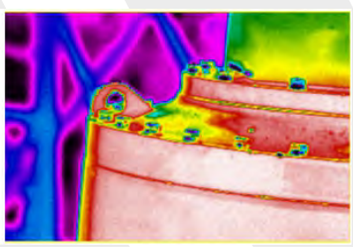
- 320x256 Resolution Cooled IR detector
- For detection of SF6- gas for insulate high voltage circuit breakers
- SF6 is a potent green house gas, by detecting and repairing SF6 leaks, avoid costly damage to circuit breakers and protecting the environment.
- Suitable for Utilities, Ammonia plants, Industrial refrigeration systems, Chemical plants

FIRA VISION

OPTICAL GAS IMAGING

SPECIFICATION	
Model	GD20
Imaging & Optical	
Detector Type	FPA, Cooled InSb
Resolution	320×256@30μm
Spectral Range	10.3μm～10.7 μm
Start Up Time	≤ 6 minutes
Gas Detection Sensisitivity	0.001ml/s
Image Frequency	50Hz
NETD	≤15mk@30°C
FOV	18° × 14°
Minimum Focus Distance	30cm
Optional Lens	15.19°x 12.18 / 9.37°x 7.32°
IFOV	1 mrad
Digital Zoom	1x-8x continuous zoom
Focus	Manual/Electric/Automatic
Display	5 inch Touch display screen, resolution 800*480
Digital Camera	5 Megapixel with built-in LED lights
View Finder	Built-in 0.5 inch color OLED display(800*600)
Image Mode	Infrared mode, High sensitivity mode, Visible camera
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic
Laser Pointer	Yes





GD20
SF6 Optical Gas Imaging

SPECIFICATION	
Measurement & Analysis	
Temperature Measurement Range	-20°C~350°C
Temperature Accuracy	± 2°C or ± 2%, take the maximum value
Detectable Gases	Sulfur hexafluoride, ammonia, acetyl chloride, acetic acid, allyl bromide, allyl fluoride, allyl chloride, methane bromide, chlorine dioxide, ethyl cyanoacrylate, ethylene
Temperature Measurement Mode	Movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)
Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
IR Image Format	JPEG Format with infrared raw measurement data images
Image Browsing	Thumbnail View
Video Recording	Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format
Voice	Supports 60 seconds of voice annotation, stored together with the image
Transfer Interfaces	USB Type C, TF card, WiFi, HDMI Video out put
Software	IR Analyser for PC-full analysis and reporting software
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (8.2V 7000mAh 58.8Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 2.5 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤2.8kg(With standard lens and battery)
Dimensions	349×195×170mm
Package Includes	IR Camera, rechargeable lithium battery * 2, Charging dock, Power adapter, USB cable, TF card, Card reader, Packing list, Calibration certificate, User manual, 2 Years warranty card, Carry case

FIRA VISION

OPTICAL GAS IMAGING

F300
Firefighting Imaging Camera

- Using the principle of infrared penetrating smoke, track fire behavior, trapped people can be quickly located and assess structural risk.
- Ergonomically designed for use with Firefighters gloves and protective gear
- Meats NFPA Standards

SPECIFICATION	
Model	F300
Imaging & Optical	
Detector Type	Uncooled Microbolometer
Resolution	384×288@17μm
Super Resolution	Up to 768X576 pixels
Spectral Range	7.5 μm ~ 14 μm
Frame rate	50Hz
NETD	≤50mk@30°C
FOV	50° × 37.5°
Focal Length	7mm
IFOV	2.4mrad
Digital Zoom	1x-8x continuous zoom
Focus	Fixed
Display	3.5 inch LCD display, 800*480
Digital Camera	5 Megapixel (Optional 13 Megapixel), with built-in LED lights
Image Mode	Fire, Overhaul, Estimation, Inspection, Missing person, WB, HB, Fusion
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic

FIRA VISION

FIREFIGHTING

F300
Firefighting Imaging Camera

SPECIFICATION	
Measurement & Analysis	
Temperature Measurement Range	-40°C~1200°C (Optional up to 2000°C)
Temperature Accuracy	± 2°C or ± 2%, take the maximum value
Temperature Measurement Mode	Full screen maximum and minimum temperature capture, center temperature detection
Laser Rangefinder	Distance shown on Screen 50m
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
Image Storage Mode	Infrared images and digital camera images are saved simultaneously
Thermal Image Format	JPEG format, infrared video recording in H.264 format
Digital Camera Image Format	JPEG format, H.264 format for Digital camera video recording
Transfer Interfaces	USB Type C, TF card, and WiFi
Software	IR Analyser for PC-full analysis and reporting software, Android app live stream on Phone/pad
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 3.5 hours Continuous working Time
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	Standard Operating temperature: -10°C~50°C Extreme Operating temperature: 80°C-30 minutes, 150°C-15 minutes, 260°C-5 minutes
Storage Temperature	-40°C~70°C
Relative humidity	95% Relative humidity 25°C to 40°C non-condensing
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP67(IEC 60529)
Drop	2m on concrete floor(IEC 60068-2-31)
Physical Specification	
Weight	≤900g(With battery)
Dimensions	123.5×273×98.5mm
Package Includes	IR thermal imager, battery * 2, Carabiner strap, Charging dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration certificate, User manual, 2 Years warranty card, Carry case

FIRA VISION

FIREFIGHTING