IVI 640 ULTRA



Built For The Experts

High Performance Thermal Camera





180°

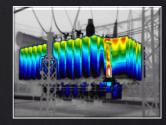




Introduce

The IVI ULTRA Series high-performance thermal camera is designed to make the inspection, maintenance and troubleshooting work faster and more accurate. It adopts a new generation of uncooled IR focal-plane detectors, which provides sharper thermal images and higher measurement accuracy. With its rotatable lens to 13 million pixels visible light camera module, precision rangefinder, and supplemented professional by functions some such as Al recognition naming.

Also, intelligent area measurement, flexible emissivity settings by areas, super-resolution reconstruction, strive to meet the needs of every thermography expert.

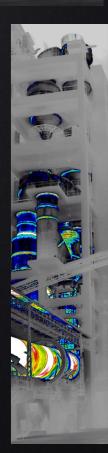


Application

- Electric Utilities Inspections
- Oil and Gas Maintenance
- Building Inspections
- Research and Development

Features and Benefits

- o IVI640 ULTRA series come equipped with our Thermo Tools Professional Software for the generation of IR Reports
- With a new generation of focus motor and professional laser rangefinder, 1-touch auto-focus in 0.4 second
- Upgraded visible light camera, flagship model up to 13 million pixels, supports infrared and visual imaging dual-channel video recording
- o Support Al voice recognition, text photo recognition and typing, convenient for customizing the image name
- Optional lenses are available such as macro/wide-angle/Medium telephoto lens/ telephoto lens, support automatic calibration, easy to replace
- Support cloud services, upload local images to the cloud at any time, for remote analysis and problem feedback
- -40°C ~ 2000°C ultra-wide temperature range, support automatic switching, suitable for more application scenarios



Specifications

Model			IVI640 ULTRA
IR Imaging Performance			
Detector type	640×480@17μm, VOx		
Spectral	7.5~14μm		
Frame rate	30Hz / 9Hz Digital -50HZ / 60HZ Analog		
NETD			30mk
Lenses Options (* Focal ler	ngth/FOV / IFOV / Min focus distance #FOV / IFOV / Working distance	ce [®] FOV)
Standard Lens*	25mm/ 24°×18° / 0.66mrad/ 0.3m		
Wide Angle*	13mm/45.4°×34.8°/1.31mrad/0.15m		
Telephoto*	55mm/11.3°×8.5°/0.31mrad/2m		
Ultra Telephoto*	85mm/7.3°×5.5°/0.2mrad/4m		
Macro Lens#	67mm/23.3mm*17.5mm/37.5µm		
High Temp®	24.6°*18.5°		
Focus	1-touch fast autofocus, support electric/manual focus switch		
Lens Identification	Automatically identify and calibrate the lens without manual switching		
	Automatically identity and calibrate the lens w	nthout ma	nual switching
Image Presentation			47 111 1 1 6
Visual Image			13 million pixels, autofocus
LCD Display	5",1280×720 High Light Touch		
Viewfinder	1280×960 LCOS Screen	1280×960 LCOS Screen	
Image Mode	IR image/Visual image/PIP/MIF/MSX type		
Digital Zoom		1×~35× co	ontinuously
Color Palettes			12 Color Palettes, and customizable
Super-resolution	4× S	uper-resolu	ution, 1280 x 960
Functions			
Al Voice Naming	Support Al voice naming, Al text recognition naming (text can be	recognize	ed by taking pictures), and typing
Professional Laser Auto			
Focus Rangefinder	The distance between the thermal camera and target is automatically measured and displayed on the thermal imag		
Temperature Measurement	Automatically measure the area of the boxes and circles		
for Areas	· ·		
Smart Stroke	Automatically outline the target contour by setting the area and tolerance (color difference between two pixels)		
Measurement Corrections	Support emissivity correction, atmospheric transmittance correction and optical transmittance correction		optical transmittance correction
Level Span	Automatic, semi-automatic, manual		
Panorama Image Mosaic	YES		
Cloud Service	Support local and cloud data upload	and dowr	nload
Measurement			
Temp Measurement Range	Support auto-switching, Filter 1:-40°C~150°C; 2:100°C~800°C; Optional	700°C~20	000°C(High temperature lens required)
Accuracy	9		±1°C~±1%, whichever is greater
Temp Measurement Area			
· (IR/PIP)			spot ×16, line ×16, area × 16
Analysis Storage	The analysis object can be saved with the image (spots, lines, areas)		
Auto Max & Min Temp	It can track the highest temperature/lowest temperature/average temperature of the whole screen and the analysis		
Tracking (IR / PIP)	object at the same time		
Isotherm	Up and down, centered interval		
Temperature Alarm	Automatic alarm (image and sound) when exceeding the alarm temperature threshold, and supports the area alarm		
Storage	function		
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Image Format	Built-in 64G, external SD card suppor		
Image Format Image Internal Storage	Picture format JPG (with temperatur	re informa	tion)
Image Format	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w	re informa vith temper	tion) rature information)
Image Format Image Internal Storage Video Format	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w Support simultaneous recording of visible light and infrared video	re informativith temper o (with tem	tion) rature information)
Image Format Image Internal Storage Video Format Dual-path Recording	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w	re informativith temper o (with tem	tion) rature information)
Image Format Image Internal Storage Video Format Dual-path Recording	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w Support simultaneous recording of visible light and infrared vide storage/timing storage	re informar vith temper o (with tem	tion) rature information) nperature data), support manual
Image Format Image Internal Storage Video Format Dual-path Recording	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w Support simultaneous recording of visible light and infrared vides storage/timing storage Flashlight, laser (laser indication, ranging, focus), WIFI, microphone (a)	re informarith temper to (with temper to continue) the continue of the continu	tion) rature information) nperature data), support manual volume), speaker (adjustable volume),
Image Format Image Internal Storage Video Format Dual-path Recording Other Hardware	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w Support simultaneous recording of visible light and infrared video storage/timing storage Flashlight, laser (laser indication, ranging, focus), WIFI, microphone (a electronic compass, GPS, light sens	re informarith temper of (with temper of the control of the contro	tion) rature information) nperature data), support manual rolume), speaker (adjustable volume), oth
Image Format Image Internal Storage Video Format Dual-path Recording Other	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w Support simultaneous recording of visible light and infrared video storage/timing storage Flashlight, laser (laser indication, ranging, focus), WIFI, microphone (a electronic compass, GPS, light sens TYPE-C (used to transmit native image data with PC), power supply	re informarith temper of (with temper of the control of the contro	tion) rature information) nperature data), support manual rolume), speaker (adjustable volume),
Image Format Image Internal Storage Video Format Dual-path Recording Other Hardware Interface	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w Support simultaneous recording of visible light and infrared vider storage/timing storage Flashlight, laser (laser indication, ranging, focus), WIFI, microphone (a electronic compass, GPS, light sens TYPE-C (used to transmit native image data with PC), power supply tripod interface	re informar vith temper o (with temper o djustable v sor, Bluetou v (12V), SD	tion) rature information) nperature data), support manual rolume), speaker (adjustable volume), oth card, Gigabit Ethernet, Micro HDMI,
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Image Format Image Internal Storage Video Format Dual-path Recording Other Hardware Interface Battery	Picture format JPG (with temperatur MP4 (without temperature information) or IRGD (w Support simultaneous recording of visible light and infrared vider storage/timing storage Flashlight, laser (laser indication, ranging, focus), WIFI, microphone (a electronic compass, GPS, light sens TYPE-C (used to transmit native image data with PC), power supply tripod interface Rechargeable lithium battery (according to UN38.3 certification); can with sleep mode	re informar vith temper to (with ten to (with ten e) djustable v sor, Blueton v (12V), SD work for 4	tion) rature information) nperature data), support manual rolume), speaker (adjustable volume), oth card, Gigabit Ethernet, Micro HDMI, hours (comprehensive working time);
Image Format Image Internal Storage Video Format Dual-path Recording Other Hardware Interface Battery Working Temperature Encapsulation	Picture format JPG (with temperature MP4 (without temperature information) or IRGD (w Support simultaneous recording of visible light and infrared vider storage/timing storage Flashlight, laser (laser indication, ranging, focus), WIFI, microphone (a electronic compass, GPS, light sens TYPE-C (used to transmit native image data with PC), power supply tripod interface Rechargeable lithium battery (according to UN38.3 certification); can with sleep mode Working temperature: -20°C~50°C Storage te	re informativith temper of (with temper of (with temper of (with temper of (12V), SD work for 4	tion) rature information) nperature data), support manual rolume), speaker (adjustable volume), oth card, Gigabit Ethernet, Micro HDMI, hours (comprehensive working time);
Image Format Image Internal Storage Video Format Dual-path Recording Other Hardware Interface Battery Working Temperature Encapsulation Size/Weight	Picture format JPG (with temperature MP4 (without temperature information) or IRGD (without support simultaneous recording of visible light and infrared vider storage/timing storage. Flashlight, laser (laser indication, ranging, focus), WIFI, microphone (and electronic compass, GPS, light sense) TYPE-C (used to transmit native image data with PC), power support tripod interface. Rechargeable lithium battery (according to UN38.3 certification); can with sleep mode. Working temperature: -20°C~50°C Storage	re informar vith temper to (with temper of (with temper djustable visor, Bluetor (12V), SD work for 4	tion) rature information) nperature data), support manual volume), speaker (adjustable volume), oth card, Gigabit Ethernet, Micro HDMI, hours (comprehensive working time); e: -40°C~70°C
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