

## IRDL708 Series



IRDL 708 Series

High Resolution Temperature Measurement

## IRDL 708 Series

- Temperature ranges up to 650°C.
- 640x480 uncooled detector.
- Normal and infrared image fusion.

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**amperis**

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IRDL708 thermal imaging cameras are the new developed uncooled detector cameras, which feature high resolution of 640x480 pixels, multi-rotatable touch screen, normal and infrared image fusion, high brightness LED light, H.264 or normal format recording, JPEG format images, light and sound alarm, voice and text annotation, network interface, built-in laser pointer, etc. This model is suitable for a wide range of applications such as professional inspection and testing of industries, electrical substation, railway, petrochemical, metallurgical, construction, scientific applications, etc.



Side View



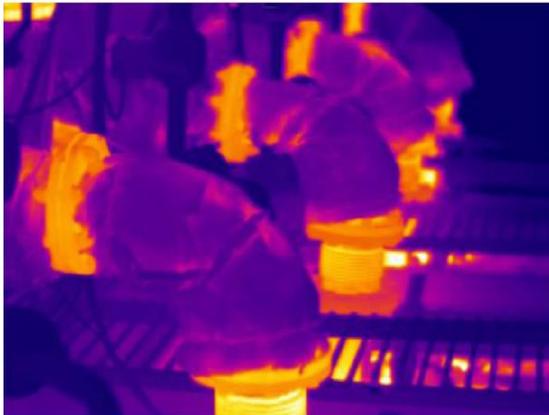
Top View



Side View



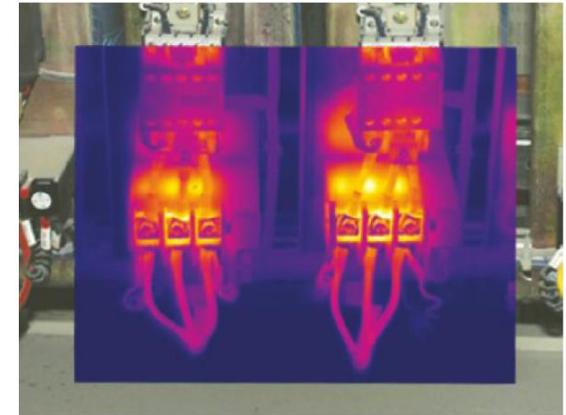
Front View



Infrared Imaging



Infrared Imaging



Normal and infrared image fusion

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## IRDL 708 Specifications

<b>Detector features</b>	<b>Detector type</b>		Uncooled FPA microbolometer	
	<b>Size/ Format</b>		640x480	
<b>Characteristics of the image</b>	<b>Field of View/ Minimum Focal Length</b>		25o×19o /0.3m	
	<b>Spatial Resolution</b>		0.65mrad	
	<b>Thermal Sensitivity</b>		≤0.03oC@30oC	
	<b>Refresh rate</b>		50/60HZ	
	<b>Approach</b>		Auto/Manual/Electronic	
	<b>Spectral Range</b>		8 to 14μm	
	<b>E-zoom</b>		1-8X Continuous zoom	
	<b>Built-in visual camera</b>		5M pixel, CMOSe Module, LED Light	
<b>Screenshot</b>	<b>Image display</b>		HD 0.6" OLED 800x600	
	<b>LCD</b>		5" LCD Touch screen 800x480	
<b>Measurement</b>	<b>Temperature ranges</b>		-40°C ~ +650°C	
	<b>Accuracy</b>		±2°C or ±2% of reading (maximum value)	
	<b>Measurement correction</b>		Automatic / manual	
	<b>Measuring mode</b>		Up to 10 moving points. Up to 5 moving areas (maximum, minimum and average temperatures). Profile line. Isotherms. Temperature difference. Alarm (voice, color)	
	<b>Color palette</b>		11 interchangeable paddles (Iron, Rainbow, Grey, Inverted Grey, etc.)	
	<b>Image Adjustment</b>		Auto/Manual Contrast and Brightness	
	<b>Configuration functions</b>		Date / time, unit temperature and language	
	<b>Emissivity Correction</b>		Variable from 0.01 to 1.0 or selectable from predefined list of materials	
	<b>Room temperature correction</b>		Automatic correction according to the user's data input	
	<b>Atmospheric transmission correction</b>		Automatic correction according to user input: distance to the object, relative humidity, ambient temperature.	
<b>Image Storage</b>	<b>Storage card</b>		SD Card 8GB (Option up to 32GB)	
	<b>Storage mode</b>		Automatic / Manual	
	<b>File-technical format</b>	<b>Photo still</b>	JPEG, 14 bits of thermal data included	
		<b>Video</b>	MPEG-4 or 14-bit thermal data with measurement data	
	<b>Archive-visual format</b>	<b>Photo still</b>	JPEG or links with corresponding thermal image	
		<b>Video</b>	MPEG-4	
	<b>Voice Annotations</b>		Input via built-in microphone up to 40 seconds of digital voice per stored image.	
<b>Text annotations</b>		Yes, user-defined		

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<b>Laser Pointer</b>	Laser pointer	Class 2.1mw/635nm (network)
<b>Feeding</b>	Battery Type	Li-Ion, rechargeable
	Battery life	3 hours continuous operation
	Charging system	Smart charger or power adapter (optional) for direct charging.
	Energy Saving	Yes
	External Energy	10-15V DC
<b>Environmental conditions</b>	Operation temperature	-15°C~+50°C
	Humidity	≤95% non-condensing
	Housing protection	IP54
<b>Weight and dimensions</b>	Weight	1.7 kg
	Dimensions	245mm×180mm×150mm
<b>Data Input/Output</b>	External DC power supply	12V
	Memory card slot	Yes, for SD cards
	Video output	PAL/NTSC
	Network interface	RJ45 can set the IP address to transmit the original image in the MPEG-4 data stream in real time.

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