

Product Parameters

Model		EX10		EX10 Pro	
Thermal Imaging	Detector Resolution	160×120			
	Super Resolution	320×240			
	Focal Length	2.6mm			
	FOV	40°×30°			
	Focusing Mode	Fixed focus			
	IFOV (Spatial Resolution)	4.62mrad			
	Minimum Imaging Distance	11cm			
	Measurement Range	Automatic range switching between -20°C to 150°C and 100°C to 550°C			
	Thermal Sensitivity	40mK			
	Wavelength Range	8-14μm			
Image Display	Frame Rate	25Hz			
	Display Size	2.8-inch, 240×320 resolution			
	Daylight Camera	/		2 megapixels	
	Palette	White-hot, black-hot, iron, lava, rainbow, rainbow HC		White-hot, black-hot, iron, lava, rainbow, black-red, rainbow HC, purple-orange, special	
	Image Mode	Infrared		Infrared, visible light, PIP, dual-spectrum fusion	
Image Storage	Temperature Width Stretch	Automatic/Manual			
	Storage Medium	Built-in memory 8GB			
	Image File Format	JPEG			
	State Grid Format	Support			
Video Recording and Transmission	Video Recording	Standard MP4 video recording			
	Communication Interface	USB 2.0			
	Video Transmission	UVC (with temperature data)		UVC (with temperature data) + Wi-Fi (without temperature data)	
	Video Resolution	240×320			
Temperature Measurement and Analysis	Measurement Accuracy	±2% or ±2°C of the reading, the greater shall prevail			
	Measurement Unit	Celsius, Fahrenheit, Kelvin			
	Temperature Alarm	Supports (high and low temperature alarms)			
	Automatic Image Capture Upon Alarm	Supports (with temperature data)			
	Color Alarm (Isotherm)	Alarms above/below/between isotherms. Images displayed in palette mode within the isotherm range and in white-hot mode in other areas			
	Analysis Software	PC (infrared analysis software)		PC (infrared analysis software) or mobile device (IOS/Android APP)	
	Analysis Report	PDF format (PC analysis software support required)		PDF format (PC or APP analysis software support required)	
	Analysis Feature on Device	Central temperature point/Highest temperature point/Lowest temperature point/3 custom points		Central temperature point/Highest temperature point/Lowest temperature point/6 custom points	
System Features	Quick Startup	Support			
	Connection Mode	USB 2.0 Type-C			
	Wi-Fi	Not support		Support	
	Laser Pointer	Not support		Support	
Others	Battery	2750mAh lithium-ion battery			
	Charging Time	More than 90% in 75 minutes			
	Charging Mode	USB 2.0 Type-C wired charging; fast charging not supported			
	Operating Time	≥10 hours			
	Operating Temperature	-20°C~50°C			
	Storage Temperature	-40°C~70°C			
	External Interface	USB 2.0 Type-C, tripod socket			
	IP Grade	IP54			
	Impact and Vibration	2.5G (IEC60068-2-6), 25G (IEC60068-2-27), 2M drop protection			
	Weight and Dimensions	257g±10g (including battery), 206.9×67×81.5mm		265g±10g (including battery), 206.9×67×81.5mm	
	Packaging	Infrared thermal camera, user manual, USB cable, certificate of qualification, certification of calibration, neck strap			

Company Profile

As a wholly-owned subsidiary of Raytron (stock code: 688002), Raythink Technology is specialized in innovation and development, manufacturing and marketing of intelligent photoelectric sensing technology. We are deeply engaged in the fields of infrared night vision imaging, thermography, gas imaging and laser sensing, providing professional infrared and laser sensing modules, devices, software and smart industry solutions to our global customers. We have also successfully achieved self-development and large-scale production of intelligent multi-dimensional sensing photoelectric products in diverse forms applicable to various fields. Being a solution provider to public sectors, industries, and commercial mats, we provide a rich portfolio of intelligent photoelectric sensing products, which are widely used in the smart industry, smart robots, gas detection imaging, fire protection and safety, new energy, carbon neutrality, environmental protection, healthcare, etc. Bearing the mission of boosting intelligent photoelectric sensing technology progress, Raythink Technology integrates photoelectricity and smart technology to continuously create incremental value for customers and contribute to building a safe, energy-saving and environmentally friendly society.

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*Sample No.: G2025-EX10-4P001
*The content of the product manual was reviewed and approved by our company before its release. The content is subject to change without prior notice.



An Intelligent Photoelectric Brand under Raytron (Stock Code: 688002.SH)

EX10 Series
Handheld Thermal Camera



EX 10



AI Real-time Super Resolution Up to 320×240
40mK Thermal Sensitivity
2.8-inch Large Screen
-20°C to 550°C Measurement Range
IP54 IP Grade
2m Drop Protection
Custom Temperature Measurement Points
Laser Pointer*

*EX10 Pro supports the laser pointer

EX10 Series

Provided with an infrared detector with a 160×120 resolution, EX10 Series employs real-time AI super-resolution to enhance its resolution to 320×240 . Featuring a 2.8-inch display, video recording, UVC+WiFi screen projection and optional laser pointer, the device can be widely used in household maintenance, electrical maintenance, HVAC leak detection, automotive repairs and other fields.

Features

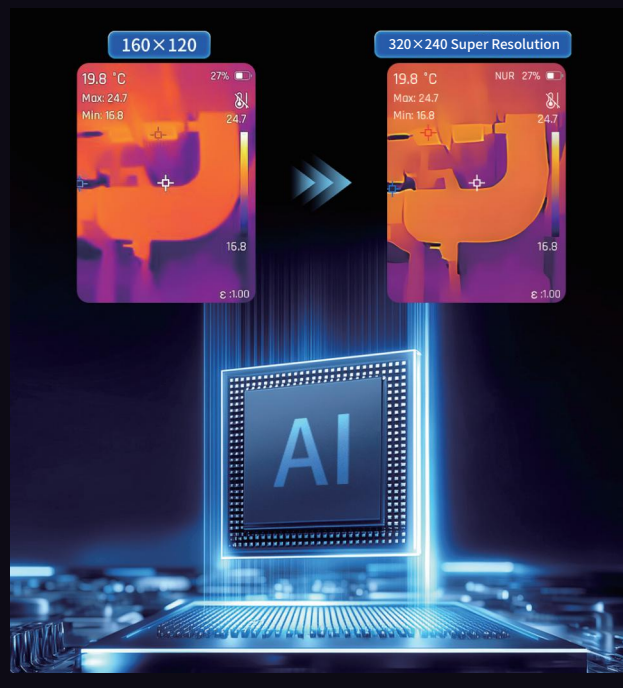
Leading Technology for Reliable Performance

- Equipped with our self-developed infrared detector, EX10 ensures full-link independence and control. Proprietary image processing and temperature measurement algorithms further guarantee the camera's high-performance and accuracy.



Super Resolution-based Clear Imaging

- 160×120 infrared resolution, enhanced to 320×240 with real-time AI super-resolution
- NETD as low as 40mK, capable of distinguishing subtle temperature differences of 0.04°C
- 2.8-inch screen, presenting thermal images in detail



Intelligent Routine Inspection and Efficient Localization

- Laser pointer function for quickly locating abnormal points
- Wide measurement range from -20°C to 550°C , automatic range switching
- Support video recording for post-analysis and documentation
- Support UVC + WiFi screen projection, compatible with PC and app software for further analysis

*Only EX10 Pro supports the laser pointer+WiFi



Professional, High Reliability and Durability

- Feature a quick start-up function and offers up to 10 hours of continuous operation
- 8GB of built-in memory, supporting large amounts of data storage
- Rated IP54 for protection against dust and water, and built to withstand drops from up to 2 meters



Complete Software Ecosystem

- EX10 is equipped with PC software*, and EX10 Pro supports both PC and app software, allowing screen projection, and in-depth analysis. Thermal images can be processed on the PC in real time, enabling fast and accurate diagnostics.

*EX10 supports PC software only
*EX10 Pro supports PC and app



Application Scenarios

