

APEX VISION

Thermal

See Heat, See More.

MobIR 3.0

The Smallest Dual-Vision Thermal Camera for iOS & Android Smartphone.

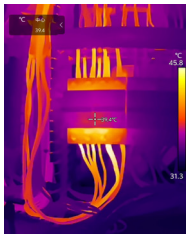
Introduction

MobIR 3.0 Series smartphone thermal camera is available in three configurations: 120 × 90, 256 × 192, and 256 × 192 dual-vision. Powered by proprietary ApexVision imaging technology, it delivers enhanced image clarity and reveals finer thermal details. With seamless compatibility for both iOS and Android, MobIR 3.0 connects easily to smartphones, enabling home monitoring, HVAC inspection, electrical fault diagnosis, equipment maintenance, outdoor adventure and more. Its compact plug-and-play design makes it highly portable and easy to operate anytime, anywhere.

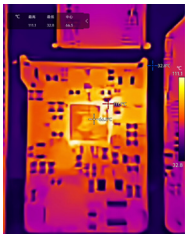
Features

- Proprietary ApexVision imaging technology for sharper, clearer thermal images with enhanced detail
- Available in 120×90, 256×192, and 256×192 dual-vision configurations
- Seamless compatibility with iOS and Android devices
- 5-second startup for instant and efficient inspections
- AI-powered multilingual assistant for easy operation and quick onboarding
- Aerospace-grade metal housing with IP54 protection and 2 m drop resistance for reliable durability

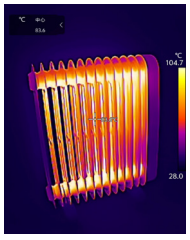
Applications



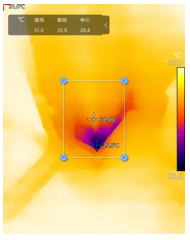
Electrical Diagnosis



PCBA Detection



HVAC Inspection



Building inspection

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Specifications







Model	ES1	ES2	ES2+
Imaging and Optics			
Core Technology	Powered by the complete ApexVision S1 architecture—the ApexCore S1 detector, Nexus 1.0 platform, and SharpIR 2.0 algorithm.		
Detector Type	Uncooled VOx detector, 7.5 to 14 μm		
IR Resolution	120×90 @ 12 μm	256×192 @ 12 μm	
Super Resolution	Supports real-time super-resolution reconstruction, up to 480×360	Supports real-time super-resolution reconstruction, up to 512×384	
NETD	≤15 mK (@30°C)		
Image Frequency	25 Hz	30 Hz	
Focal Length	1.6 mm	3.2 mm	
Field of View	50°×38°	56°×42°	
IFOV	7.27 mrad	3.82 mrad	
Min. Focus Distance	0.1 m	0.3 m	
D:S	138:1	262:1	
Focus Mode	Focus-Free		
Measurement and Analysis			
Measurement Range	Automatic range switching: -20°C to 150°C; 0°C to 550°C		
Accuracy	±2°C or ±2%, whichever is greater		
Measurement Tools	Spot, Line, and Area		
Alarm	Supported		
Image Display			
Image Modes	IR, PIP (via smartphone camera)		IR, VIS, MIF, PIP
Color Palettes	12 Preset + Custom		
Digital Camera	/	/	800×600
Functions			
Capture	Photo and Video		
Others	OTA Update		
Storage and Transmission			
Interfaces	USB-C Male Connector		
Power System			
Battery Type	Battery-free (powered by smartphone); power consumption: 310 mW	Battery-free (powered by smartphone); power consumption: 400 mW	Battery-free (powered by smartphone); power consumption: 620 mW
Environmental Parameters			
Operating Temp.	-20°C to 50°C		
IP Rating	IP54		
Drop	2 m drop test		
Physical Parameters			
Weight	25 g	31 g	32 g
Dimensions	51×24×15.1 mm	58×24×17.6 mm	
Supported Software	FocusIR (iOS/Android)		
Package Contents	Thermal Camera, USB Port Cover, Carrying Bag, Quick Start Guide, Warranty Card		
Optional Accessories	USB-C to Lightning Adapter (USB-C Female to Lightning Male), Magnetic Macro Lens (30×), Magnetic Mounting Kit	USB-C to Lightning Adapter (USB-C Female to Lightning Male), Magnetic Macro Lens (15×), Magnetic Mounting Kit	

MobIR 3.0 Smartphone & Tablet Compatibility

MobIR 3.0 supports a wide range of smartphones and tablets with a plug-and-play experience. Devices with a Lightning port require an optional USB-C to Lightning adapter (USB-C female to Lightning male), available from our official channels.

iPhone: iPhone 15 series and later models support direct connection via USB-C; iPhone 14 series and earlier models require a USB-C to Lightning adapter.

iPad: iPad models with a USB-C port support direct connection; iPad models with a Lightning port require a USB-C to Lightning adapter.

Android / HarmonyOS: Supports direct USB-C connection with Android devices and HarmonyOS devices based on the Android ecosystem; currently not compatible with HarmonyOS NEXT devices.



USB-C to Lightning Adapter

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.