

Technical Specifications

Model	ES1	ES2	ES2+
IR Resolution	120 × 90	256 × 192	
Super Resolution	480 × 360	512 × 384	
NETD	≤15 mK (@30°C)		
Frame Rate	25 Hz	30 Hz	
Focal Length	1.6 mm	3.2 mm	
FOV	50° × 38°	56° × 42°	
Min. Object Distance	0.1 m	0.3 m	
Measurement Range	Support auto-switching: -20°C~150°C/0°C~550°C		
Temperature Accuracy	±2°C or ±2%, whichever is greater		
Image Modes	IR, PIP (access smartphone camera)		IR, VIS, MIF, PIP
Digital Camera	/		800 × 600
Imaging	Photo & Video		
Other	OTA Update		
Working Temperature	-20°C to 50°C		
Weight	25 g	31 g	32 g

Standard Accessories



Device



Interface Protective Case



Carrying Bag



Quick Start Guide
(User Manual Included)



Warranty Card



Packaging Box

Optional Accessories



30× Macro Lens
(Compatible with 120 × 90 models)



15× Macro Lens
(Compatible with 256 × 192 models)



USB-C to Lightning Adapter
(USB-C Female to Lightning Male)

Compatibility

- iPhone 15 series and later models support direct connection via USB-C.
- iPhone 14 series and earlier models, as well as iPad with a Lightning port, require an adapter.
- iPad with a USB-C port, Android devices, and HarmonyOS devices based on the Android ecosystem support direct connection.
- HarmonyOS NEXT is currently not supported.

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Edition_GS_CW20260805



MobIR 3.0

See Heat.
See More.

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





iOS & Android



5s Boot-Up



2m Drop | IP54



AI Assistant

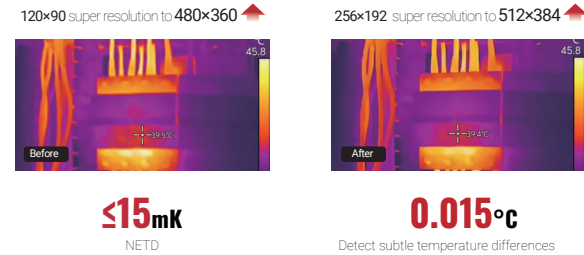


8 Core Advantages

- 1 Dual Vision Fusion**
Thermal and visible light fusion for precise heat source identification, making inspections more intuitive and efficient.



- 2 APEX VISION Ultra-Clarity Imaging**
Powered by Next-Generation Ultra-Clarity Thermal Imaging Technology.



- 3 Dual System Compatible, Plug and Play**
iOS and Android compatible, USB-C plug and play, a true cross-platform device, without device limits.



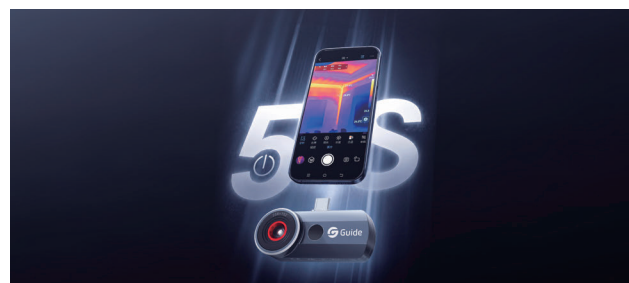
- 4 Professional Temperature Measurement**
Meet diverse temperature measurement needs with reliable data and efficient analysis.



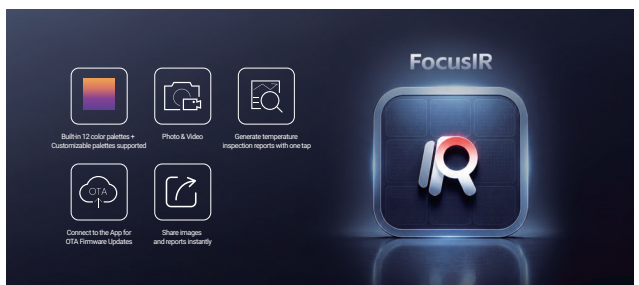
- 5 56° × 42° Wide FOV**
Wider field of view for larger area coverage, with higher inspection efficiency.



- 6 5s Boot-Up. Designed for Instant Inspection**
Plug in smartphone and 5-second startup, instantly accessing high-resolution thermal images. No waiting. Plug and play.



- 7 FocusIR APP—Built for Professional Thermal Imaging**
12 color palettes + customization, photo & video capture, one-click analysis report generation, OTA firmware updates, and APP connection for sharing.



- 8 AI Assistant, Easy Operation and Quick Onboarding**
Built-in multilingual AI assistant. From beginner to expert, enjoy effortless thermal inspections.



3 Versions, All-Scenario Applications

256 Dual-Vision Ultimate Flagship

- IR resolution: 256 × 192 (super resolution to 512 × 384)
- Visible light resolution: 800 × 600
- Ideal for all-scenario applications



256 Single-Vision Professional

- IR resolution: 256 × 192 (super resolution to 512 × 384)
- For industrial temperature measurement



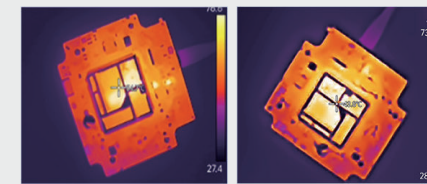
120 Single-Vision Entry Level

- IR resolution 120 × 90 (super resolution to 480 × 360)
- For everyday home inspections



Optional Accessories Expand Your Inspection Capabilities

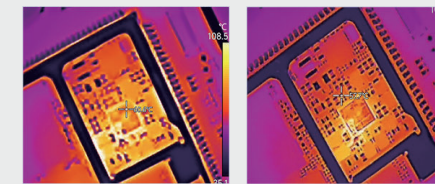
Infrared image captured with bare device:



ES1

ES2+

Infrared Image Captured with Macro Lens:



ES1

ES2+

0.4mm

Clearly resolve heat sources on micro electronic components



15x Macro Lens

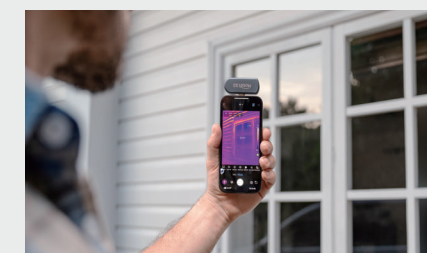
(Compatible with 256 × 192 models)



30x Macro Lens

(Compatible with 120 × 90 models)

Diverse Applications, Capture Every Temperature Detail



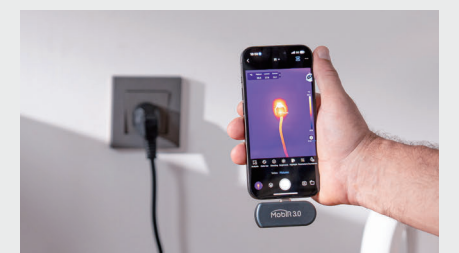
► Building Inspection

Rapid detection of wall insulation defects, concealed water leaks, and thermal bridges



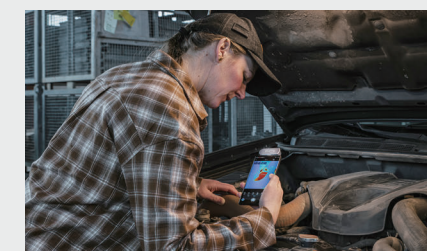
► HVAC Inspection

Fast inspection of heating pipe blockages, leaks, and AC system faults



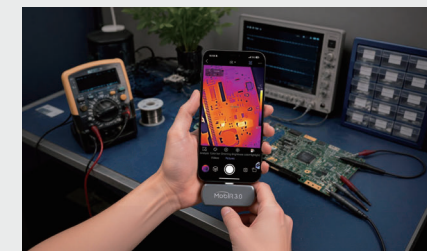
► Electrical Fault Detection

Early warning of overheating risks in outlets, wiring, and electrical cabinets



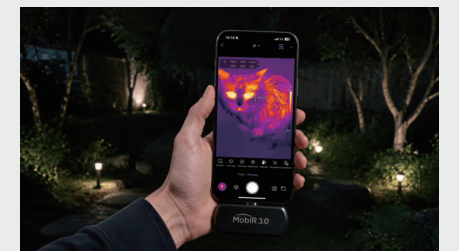
► Vehicle Diagnosis

Clearly identifying abnormal temperatures in vehicle engines, wiring, batteries, and key components.



► PCBA Inspection

Intuitively identify thermal defect locations on circuit boards.



► Outdoor Adventure

Quickly detecting wildlife, lost pets, and hidden heat sources in the environment.