

PRODUCT CATEGORY



Handheld









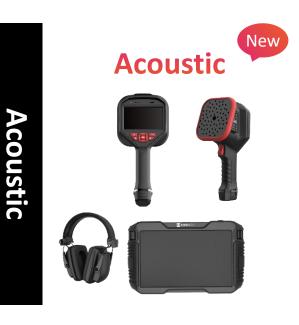


New









Software









PRODUCT MATRIX - HANDHELD



Entry & Middle level

• 256



Mini2Plus: Manual Focus



Mini2: Focus Free

Smartphone Attachment for Android

Mini Series







Eco Series



E Series

192 / 256

96 / 160

Focus Free

- Wi-Fi
- Focus free



B Series



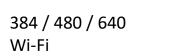
Pocket Series

Middle & High-end Level

- 160 / 192 / 256 / 384 / 640
- Wi-Fi
- Manual Focus
- Removable Batteries /Memory Card



M Series



- Auto Focus
- Removable Batteries /Memory Card
- Optional Lenses



G Series

- 480 / 640
- Wi-Fi
- Auto Focus
- Removable Batteries / Memory Card
- Optional Lenses
- DV Form Factor





SP Series

PRODUCT POSITIONING



The B series is our hot-selling handheld thermal camera for quick troubleshooting. B21L, B11, and B20 3 models are available in this series, which is a single IR camera and an IR, visible light dual-lens camera. Powered by SuperIR image enhancement technology, the B series can optimize the thermal image quality of products without increasing the budget. Supports full-screen temperature measurement, automatically tracks the highest, lowest, and center points, and quickly locates problems. Wireless connect with the HIKMICRO Viewer App to quickly transfer and share your on-device images.

Model	E1L	B11	B21L	B20	Pocket2
IR Resolution	160 x 120 (19,200 Pixels)	192 × 144 (27,648 Pixels)	256 x 192 (49,152 Pixels)	256 x 192 (49,152 Pixels)	256 x 192 (49,152 Pixels)
SuperIR	×	Yes, on Captured Thermal Images			TBD
FOV (H × V)	37.2° × 50°	27.8° × 37.2°	37.2° × 50.0°	37.2° × 50.0°	50° × 37.2°
Temperature Range	-20 °C to 550 °C (-4°F to 1022°F)	-20 °C to 550 °C (-4°F to 1022°F)			-20 °C to 400 °C (-4°F to 752°F)
Operation Time	8 Hours	6 Hours			4 Hours
Display	2.4" LCD Screen	240 × 320 Resolution, 3.2"LCD Screen			640 × 480 Resolution, 3.5" LCD Touch Screen with Auto-rotation
Visual Camera	×	1600 × 1200 (2 MP)	×	1600 × 1200 (2 MP)	3264 × 2448 (8 MP)
LED Flashlight	×	V	×	٧	٧
Wi-Fi	×		٧		٧



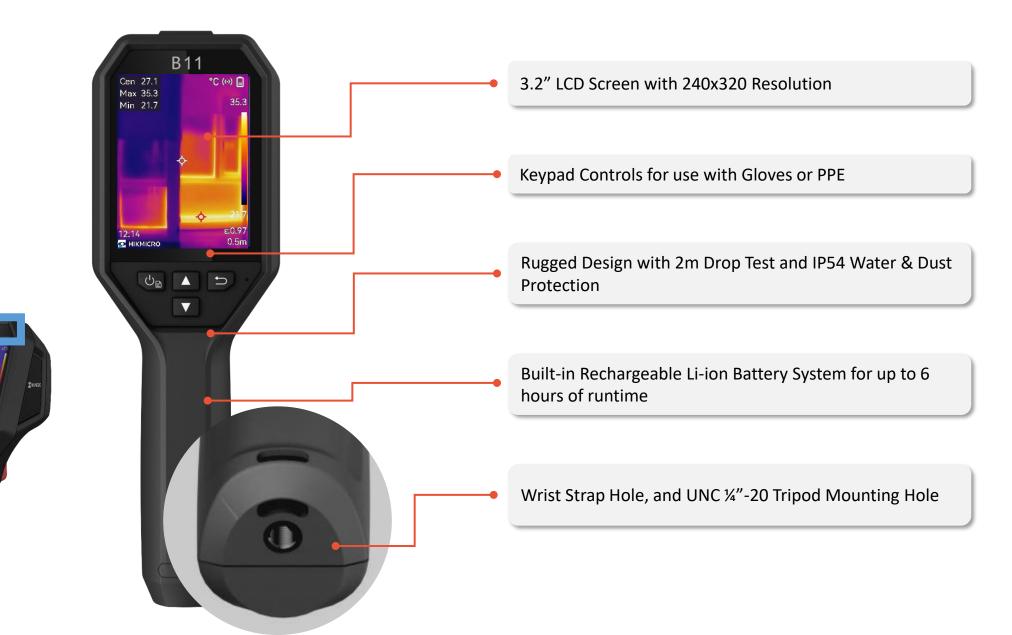
B SERIES – FORM FACTOR





B SERIES – FORM FACTOR





B11/B20 – FORM FACTOR





B21L – FORM FACTOR







B SERIES - OVERVIEW

Compact and easy to use camera for daily operation



Basic Parameters	B11	B21L	B20		
IR Resolution	192 × 144 256 x 192 (27,648 Pixels) (49 125 pixels)				
SuperIR	Yes, on Captured Thermal Images				
FOV (H × V)	27.8° × 37.2° 37.2° × 50.0°				
Visual Camera	2 MP	×	2 MP		
Laser Pointer	×	٧	×		
Led Flashlight	٧	×	٧		
Wi-Fi	V				
Display	240 × 320 Resolution, 3.2"LCD Screen				
Object Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)				
Focus	Focus-free, 0.3 m (0.98 ft) Min. Focusing Distance				
Storage Media	Built-in EMMC (16 GB)				
Battery Operating Time	6 Hours				
Weight	380 g (0.84 lb)				

B SERIES - KEY FEATURES

♦ HIKMICRO

Compact and easy to use camera for daily operation



High Image Quality

Features a highly sensitive (NETD < 40 mK) VOx detector, along with optimized image enhancement algorithms to provide clear thermal images.



3.2" Color LCD

View the details of your images on the large, class-leading LCD screen



Wi-Fi Connectivity

Connect to mobile devices via built-in Wi-Fi and the HIKMICRO Viewer App to quickly share your images.



High Thermal Sensitivity
< 0.04°C









High Temperature Alarm

Built-in speaker and flash light give the operator audio and visual alerts to high temperatures

B SERIES - KEY FEATURES

HIKMICRO

Compact and easy to use camera for daily operation

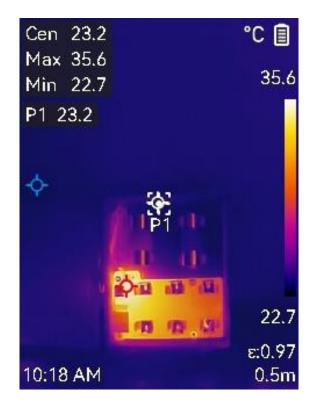


Enhanced Thermal Clarity with **SuperIR**

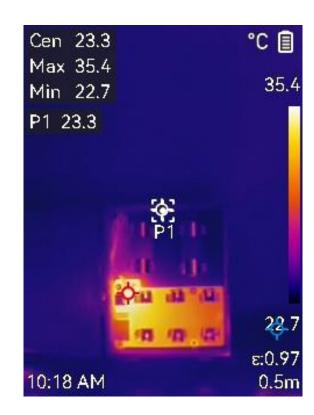
Powered by HIKMICRO SuperIR image enhancement technology, it upscales the resolution of captured thermal images to 320 x 240 (76,800 Pixels).

- **Upscaled** IR Resolution
- Reduced Image Noise
- Enhanced Edge Details

Note: Update the firmware of your B series cameras to V5.5.50 and above.







B SERIES - KEY FEATURES

Compact and easy to use camera for daily operation



Full-screen Precise and Wide

Temperature Measurement

Supports capture of full-screen radiometric images and automatically tracks max/min/center spots to pinpoint temperature anomalies at a glance. Accurately measures temperatures from -20°C to 550°C (-4°F to 1022°F) with a temperature accuracy up to +/-2°C (+/-3.6°F) or +/-2% of reading.



25 Hz Fast Image Frequency

25 Hz fast image frequency delivers smooth video while panning across scenes or viewing moving targets.

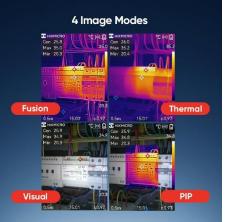


4 Images Modes

Thermal, Fusion, PIP and Optical modes to suit your preferred view. (Except B2L/B21L)













Durable and Rechargeable Batteries

Built-in 3350mAh Li-Ion rechargeable battery and thoughtful auto power-off settings (10/20/30/40/50/60 minutes) allow the camera up to 6 hours of continuous operation.



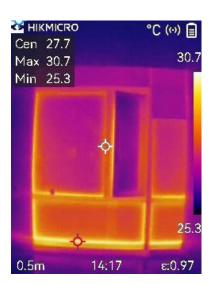
B SERIES – APPLICATIONS



Electrical Inspection

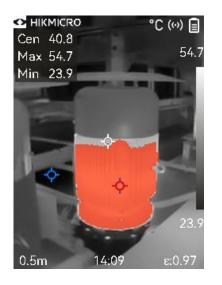
Electrical problems can relate to problems such as loose or over-tight connections, shorted or overloaded circuits, load imbalances, and components that have failed or are fatigued, such as fuses, circuit breakers, transformers, etc. Most electrical problems exhibit a gradual rise in temperature prior to their failure.

And thermal imaging can recognize this heat. By detecting these early, you can prevent the possibility of fire.



Building Inspection

In building inspections, missing or damaged insulation, building envelope air leaks, and moisture intrusion can be very difficult to find before they become serious enough to damage or destroy building contents. Thermal cameras can and have been utilized in the discovery of otherwise undetectable heat, air, and moisture anomalies in all types of structures.



© HIKMICRO °C (∞) ■ Cen 23.0 Max 26.7 Min 21.9

4

Mechanical Predictive Maintenance

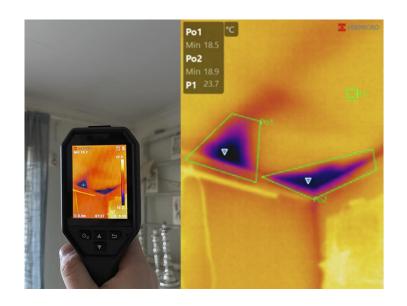
Thermal imaging is great for spotting a lack of uniformity in equipment by indicating hot and cold spots in surface temperature, through infrared image capture. Heat is often an early symptom of equipment damage or malfunction, making it important to monitor preventive maintenance programs. Monitoring equipment performance with thermal imaging cameras can reduce the likelihood of unplanned downtime due to equipment failure, reduce reactive maintenance fees and equipment repair costs, and extend the lifespan of machine assets.

HVAC

21.9

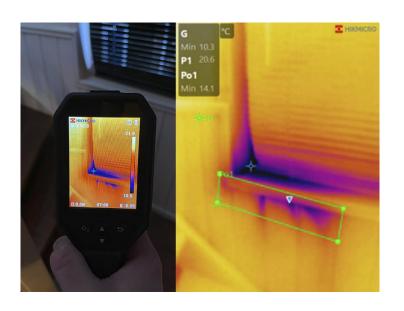
With thermal imaging technology, technicians and heating engineers can make doubly sure that a central heating system has been thoroughly maintained. Not only does this provide peace of mind for the operator themselves, and it also allows them to show clients the results of their work and even help convince them of the need for maintenance in the first place. Thermal technology stands out as the only way to provide a comprehensive, visual, and quantitative assessment of the efficacy of maintaining HVAC Radiators.

B SERIES – APPLICATIONS



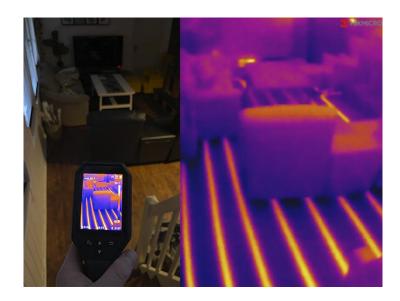
HVAC Inspection

A handheld thermal imager can be used to troubleshoot HVAC problems effectively and efficiently. It can find blocked registers, broken junctions, condenser units, electrical problems, radiant floor heating, and coil temps in a flash.



Water Leak Inspection

Hidden water can wreak havoc on insulation, wood, electrical components and, eventually, finishes when it does reveal itself. As long as the conditions are right, thermal imaging will find the leakage area though showing the temperature variances between water and surrounding materials.



Find Air Leakage

When insulation is missing in walls or rafters, it can cause energy loss and increase heating and cooling costs. As long as the conditions are right, a thermal imaging camera can help identify areas with energy loss, especially those in hard-to-reach locations or behind walls.



B SERIES - SCOPE OF DELIVERY



Compact and easy to use camera for daily operation

- ◆ Thermal Camera with Wrist Strap
- Power Supply
- International Use Plugs(US/EU/UK/AU/CN) for Power Supply
- ◆ USB 2.0 A to USB Type-C Cable
- ◆ Calibration Certificate
- Quick Start Guide







Calibration Certificate

Quick Start Guide

Thermal Camera with Wrist Strap













Charger and International Adapters



B SERIES - OPTIONAL ACCESSORIES









POUCH

(HM-B01-POUCH)

Soft carrying case

Bracket

(HM-2925ZJ-TM01-BRACKET)

- PCB Testing Bracket
- UNC ½"-20 Tripod Mounting Bracket

Macro Lens for B Series

(HM-B201-MACRO)

- Compatible with B Series camera
- Magnification: 0.12X
- Focus Distance: 30 mm
- Minimum Target Size for Accurate
 Temperature Measurement: 500 μm
- Accurate Temperature Range: 20~150 °C(-4~302°F), Max(±3°C,
 ±3%)

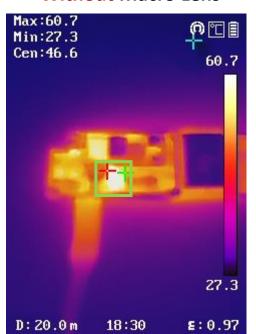
B SERIES - MACRO LENS



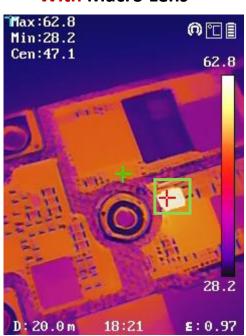
Macro Lenses Solution for Imaging Small Targets

Item	Model Name	Key Features	Picture
Macro Clip-on Lens	HM-B201-MACRO	 Compatible with B Series camera Magnification: 0.12X Focus Distance: 30 mm Minimum Target Size: 100 μm Accurate Temperature Range: -20~150 °C(-4~302°F), Max(±3°C, ±3%) 	

Without Macro Lens



With Macro Lens









Features above 2: Imaging the chip on the PCB with the HIKMICRO B Series camera with or without a macro lens.



B SERIES - SPECIFICATIONS



Camera Highlights		B11	B21L	B20		
	IR Resolution	192 × 144 (27,648 Pixels) 256 x 192 (49,152 Pixels)				
	SuperIR	Yes, on Captured Thermal Images				
Infrared Image	NETD	<0.04°C / NETD< 40mK				
ililialed illiage	Image Frequency	25 Hz				
	Field of View (FOV)	27.8° × 37.2° 37.2° × 50.0°		37.2° × 50.0°		
	Focus Mode	Focus Free				
	Visual Camera	1600 × 1200 (2 MP)	×	1600 × 1200 (2 MP)		
Image Display	Image Modes	Thermal/Visual/PIP/Fusion Thermal		Thermal/Visual/PIP/Fusion		
	Display	240 × 320 Resolution, 3.2" LCD Screen				
Measurement and	Object Temperature Range	-20 °C to 550 °C (-4°F to 1022°F)				
Analysis	Accuracy	Max (\pm 2°C/3.6°F, \pm 2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)				
	Storage Media	Built-in 16 GB flash memory				
Data Storage and	File Format	Radiometric JPEG				
Communication	Storage Capacity	Approx. 90,000 Images				
	Wi-Fi	802.11 b/g/n (2.4 GHz)				
	Battery Operating Time	Approx. 6 hours				
General	Led Flashlight	\checkmark	×	\checkmark		
	Laser Pointer	×	\checkmark	×		
	Durability	IP54, 2 m (6.56 ft) drop protection				
	Weight	Aı	pprox. 380 g (0.84 lb)			



01 FORM FACTOR

02 KEY FEATURES

03 APPLICATIONS

04 SCOPE OF DELIVERY

05 SPECIFICATIONS

06 APP AND SOFTWARE

07 COMPETITION



MOBILE APPLICATIONS - HIKMICRO VIEWER





WIRELESS ANALYSIS, REPORTING AND SHARING

HIKMICRO Viewer App is A powerful and intuitive APP designed for industrial thermal cameras. It allows thermal inspector to view and capture live streaming infrared video and still images from select HIKMICRO thermal imaging cameras using a mobile device. With the HIKMICRO Viewer, the thermal camera can be placed in an area and operated wirelessly from a distance - helping infrared detection work safely in hard-to-reach locations and harsh work environments. Streaming video and remote access also provide opportunities for decision-makers and others on the team to observe and collaborate during IR surveys. With a powerful reports function, you can efficiently generate reports for your clients in the field.

- Free license
- Scan and Connect Easily
- Download On-Device Images and Video to share
- Live View and Remote Control
- Advanced measurement and image analysis
- Quick reporting and sharing

- Firmware Upgrade
- After-sales contacts and online support services
- Turn screen rotation on and off





















Learn more:

https://www.hikmicrotech.com/en/industrial-products/hikmicro-viewer-software

PC SOFTWARE - HIKMICRO ANALYZER





EFFICIENT, POWERFUL THERMAL ANALYSIS AND REPORTING

HIKMICRO Analyzer is a powerful and free licensed PC software designed to help users manage and analyze thousands of thermal images and videos and quickly create professional reports. Compatible with files from HIKMICRO handheld thermal cameras, providing the features you need to simplify your workflow and increase your productivity.

- Free license
- Import, edit and manage files
- View, edit and analysis radiometric images and videos

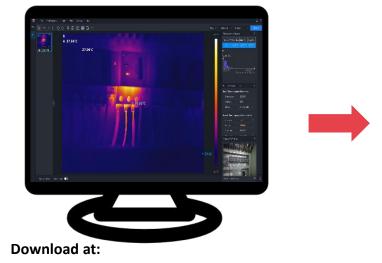
- Advanced measurement and image analysis
- Batch processing with all image and measurement controls
- Quick reporting with pre-defined or customized templates

THERMAL IMAGE ON SITE





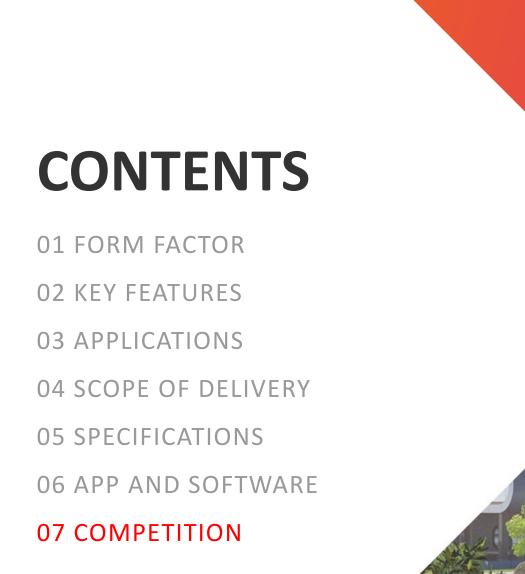
ANALYSIS ON COMPUTER



EXPORT REPORT



https://www.hikmicrotech.com/en/industrial-products/hikmicro-analyzer-software/





B20 - COMPETITIVE ANALYSIS

HIKMICRO Advantages:

- 1. Fully Radiometric
- 2. SuperIR
- 3. 25 Hz Video
- 4. 40 mK NETD
- 5. Wi-Fi
- 6. Auto Hot/Auto Cold
- 7. Warranty

FEATURE/PRODUCT	HIKMICRO B20	FLIR TG267	Fluke TiS20+	
Thermal Resolution	256 x 192	160 × 120	120 x 90	
SuperIR	Ye	es, on Captured Thermal Image	2 S	
Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)	-25°C to 380°C (-13°F to 716°F)	-20 °C to 150 °C (-4°F to 302°F)	
Accuracy	Max (±2 °C, ±2%)	± 1.5 °C (2.7°F) for 50°C to 100°C (122°F to 212°F); up to ± 3 °C (± 5.4 °F) for -25°C to 50°C (-13°F to 122°F) and 100°C to 380°C (212°F to 716°F)	Accuracy: ± 2 °C or ± 2 % at 25 °C, whichever is the greater.	
Field of View	37.2° × 50.0°	57 ° x 44°	50° H x 38° V	
Focus	Fixed	Fixed	Fixed	
Frame Rate	25Hz	8.7Hz	30 Hz or 9 Hz versions	
NETD	< 40mK	<70 mK	60 mK	
Display	3.2" LCD Screen	320×240 pixel, 2.4 in color LCD	320 x 240 3.5" LCD touchscreen (landscape)	
Measurement Rules	Max/Min/Center/preset points	Center Point	Max/Min/Center	
Optical Camera	1600 × 1200 (2 MP)	2 MP (1600 × 1200 pixels)	5MP resolution	
Wifi	Yes	No	Yes	
High Temperature Alarm	Yes	No	No	
Battery Operating Time	6 hours operating time	5 hours operating time	≥ 5 hours continuous	
Warranty	3 Years	2 Years	2 Years	



01 FORM FACTOR

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07 COMPETITION

08 IMAGES QUALITY

COMPARISON(Internal Use

Only)



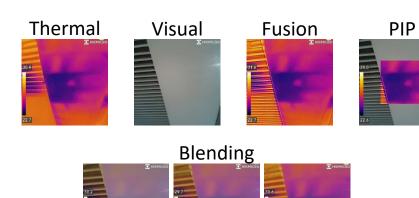
IMAGES QUALITY COMPARISON(Internal Use Only)



	Eco	Eco-V	PocketE	B11	B21L	B20	
IR	96 x 96 (9,216 Pixels)			192 × 144 (27,648 Pixels)	256 x 192 (49,152 Pixels)		
SuperIR	240 x 240 (57,600 Pixels), on Live View and Captured Thermal Images			320 x 240 (76,800 Pixels), on Captured Thermal Images			
Image Mode	Thermal	3: Thermal/Visual/Fusion	5: Thermal/Visual/Fusion/ PIP/Blending	4: Thermal/Visual/Fusion/ PIP	Thermal	4: Thermal/Visual/Fusion/ PIP	
Palettes	7				7		
Min. Focus Distance	0.1 m			0.3 m			

• Image Mode

25%

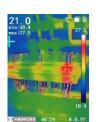


50%

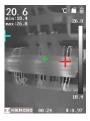
75%

4 color palettes

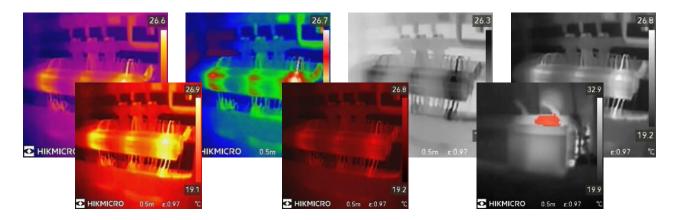








7 color palettes



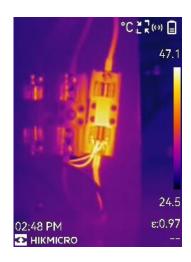
COMPARISON OF IMAGES - ELECTRICAL(Internal Use Only)



B11

B21L/B20







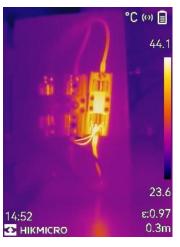














50 cm

30 cm

COMPARISON OF IMAGES - ELECTRICAL(Internal Use Only)



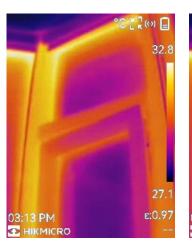
B11

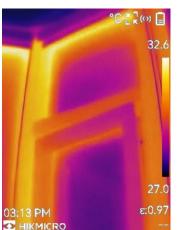
Super/R ON

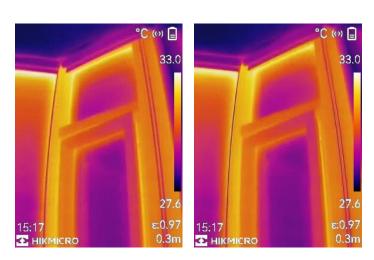
B21L/B20

Super/R ON

°F (↔) ■
75.9
11:05 Visual ε:0.97
• HIKMICRO 0.9m







1.5 m

COMPARISON OF IMAGES – Short Distance(Internal Use Only) THICKNICRO



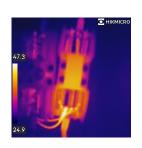
Eco/Eco-V/PocketE



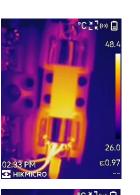
Super



10 cm

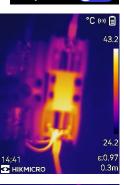






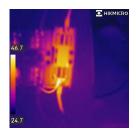






15 cm

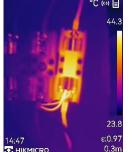


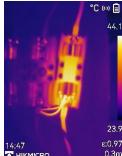






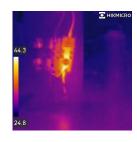






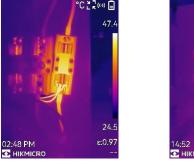
30 cm

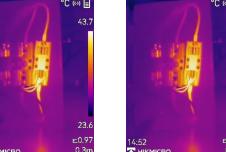












COMPARISON OF IMAGES - Medium Distance(Internal Use Only) THIKMICRO



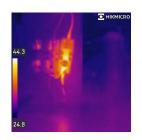
Eco/Eco-V/PocketE





30 cm



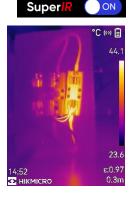




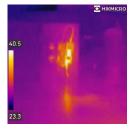






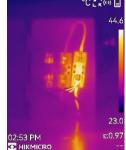


50 cm

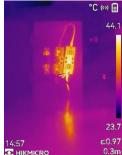






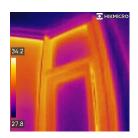




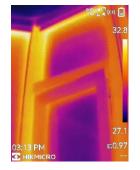


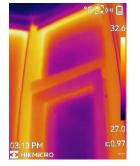
1.5 m

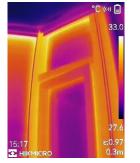


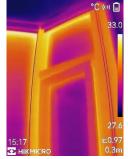












THANK YOU

See the World in a New Way

- HIKMICRO Thermography
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