

HIKMICRO M SERIES PRODUCT INTRODUCTION

M60

THIKMICRO

Advanced thermal imaging camera with full function analysis.

INDUSTRIAL PRODUCT | 2023.Q3



HIKMICRO















Middle & High-end Level

192 / 256 / 384 / 640

- Wi-Fi
- Manual Focus
- Removable Batteries
 /Memory Card

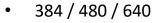


M Series

G Series



SP Series



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

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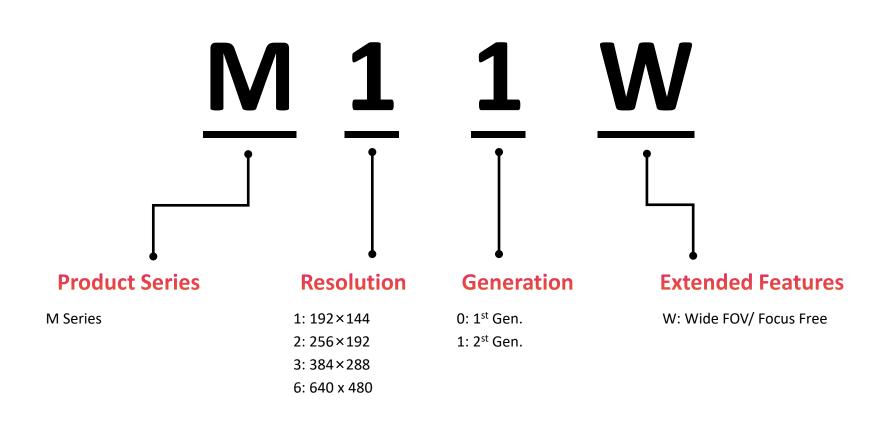
07 IMAGES QUALITY COMPARISON

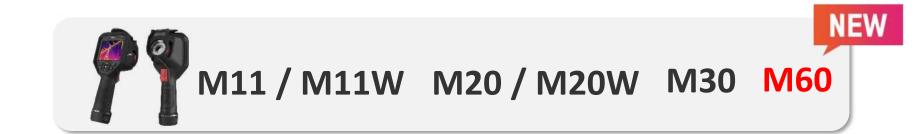


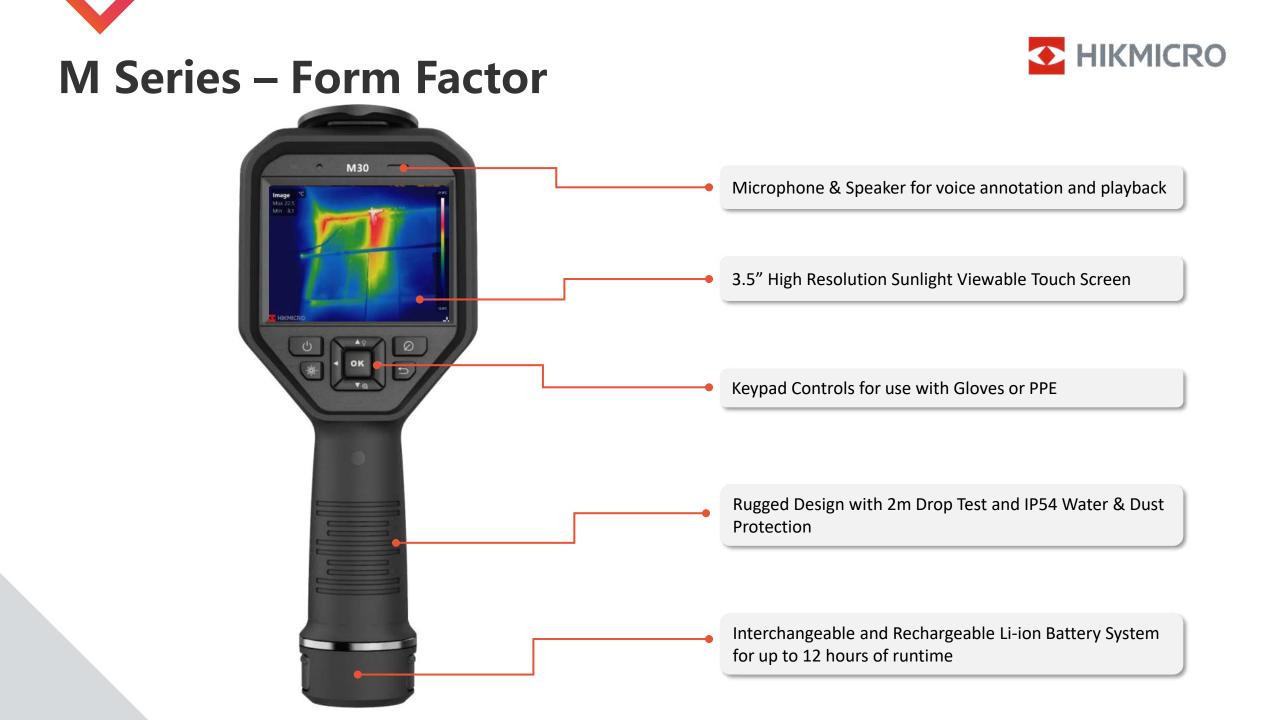




M Series - Product Naming









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M Series - Overview

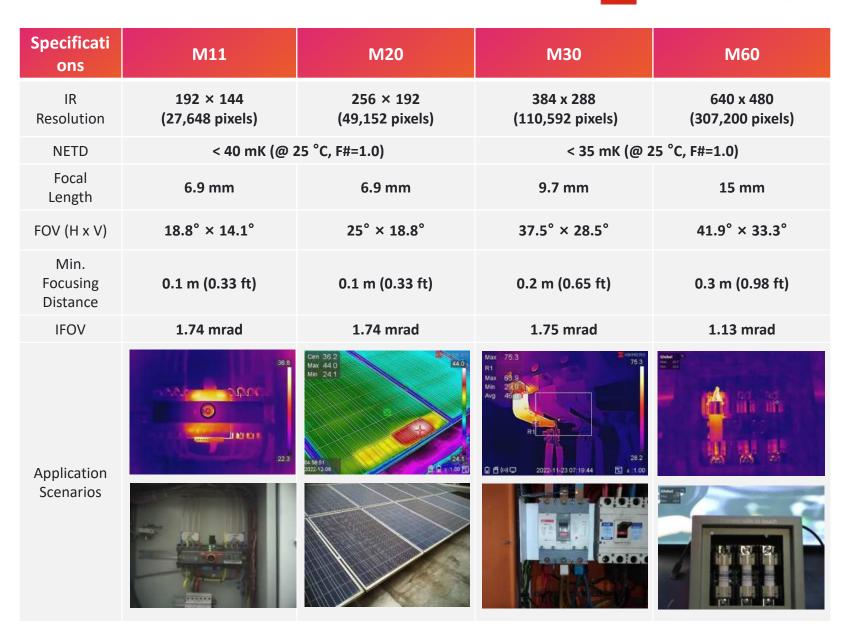


Basic Parameters	M11	M11W	M20W	M20	M30	M60
IR Resolution	192 × 144 (27,648 pixels)	192 × 144 (27,648 pixels)	256 x 192 (49,152 pixels)	256 x 192 (49,152 pixels)	384 x 288 (110,592 pixels)	640 x 480 (307,200 pixels)
SuperIR	384 × 288 (110,592 pixels)	384 × 288 (110,592 pixels)	512 × 384 (196,608 pixels)	512 × 384 (196,608 pixels)	768 x 576 (442,368 pixels)	1280 x 960 (1,228,800 pixels)
NETD		< 40 mK (@ 2	25 °C, F#=1.0)		< 35 mK (@ 2	25 °C, F#=1.0)
Focal Length	6.9mm	3.6mm	3.5 mm	6.9 mm	10 mm	15mm
FOV	$18.8^{\circ} \times 14.1^{\circ}$	37.2° x 27.8°	50° x 37.2°	25° x 18.8°	37.5° × 28.5 °	41.9° × 33.3°
Focus	Manual Focus	Focus Free	Focus Free	Manual Focus	Manual Focus	Manual Focus
Visual Camera			3264 × 24	148 (8 MP)		
Min. Focusing Distance	0.1 m (0.33 ft)	0.5 m (1.64 ft)	0.5 m (1.64 ft)	0.1 m (0.33 ft)	0.1 m (0.33 ft)	0.3 m (0.98 ft)
Object Temp. Range	-20 °C to 550 °C (-4 °F to 1022 °F)					-20 °C to 650 °C (-4 °F to 1202 °F)
Accuracy	Max. (± 2°C/3.6°F, ± 2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)					
Display	640 × 480 Resolution, 3.5" LCD Touch Screen					
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)					
Storage					Default Storage: Remo Max. Storage C	vable SD Card (64 GB) ; apacity: 128 GB
Weight	Approx. 660g (1.46 lb)	Approx. 660g (1.46 lb)	Approx. 660g (1.46 lb)	Approx. 660g (1.46 lb)	Approx. 660g (1.46 lb)	Approx. 686g (1.51 lb)
Battery Life	6 hours x 2	6 hours x 2	6 hours x 2	6 hours x 2	4 hours x2	4 hours x2



Mxx

- Manual focus is ideal for electrical, HVAC, and mechanical systems that may have small components in tight spaces or maybe in a dangerous area (heat, electric, up high, in/around operating components).
- Allow the user to maximize pixel density on small objects where measuring temperature is critical to identify in or out of specification.







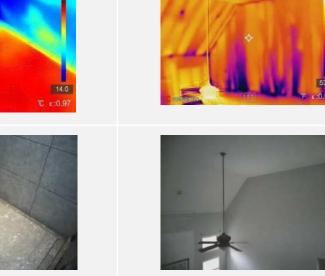
Fixed Focus and wide FOV cameras

These cameras have the same resolution, sensitivity, and operating frequency as the manual focus models, but the fixed focus with wider angle FOV makes them great for scanning walls, floors, facades for items that typically present themselves on a larger scale including water leaks, insulation issues, air infiltration.



Specifications	M11W	M20W	
IR Resolution	192 × 144 (27,648 pixels)	256 x 192 (49,152 pixels)	
NETD	< 40 mK (@ 2	25 °C, F#=1.0)	
Focal Length	3.6 mm	3.5 mm	
FOV (H x V)	37.2° x 27.8°	50° x 37.2°	
Min. Focusing Distance	0.5 m (1.64 ft)	0.5 m (1.64 ft)	
IFOV	3.33 mrad	3.33 mrad	
	Cen 25.8 2023/02/05 19.04 C 28.8 Max 29.8 Min 14.0	Cen 65.4 2022/11/14 20:29 0 1	

Application Scenarios

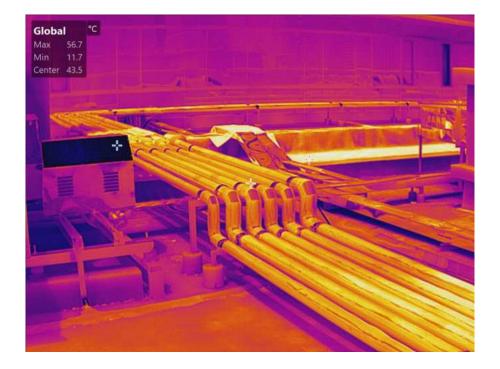






Powered by HIKMICRO SuperIR image enhancement technology, images are upscaled 4X to deliver highly

detailed live and recorded radiometric images for inspection and reporting.





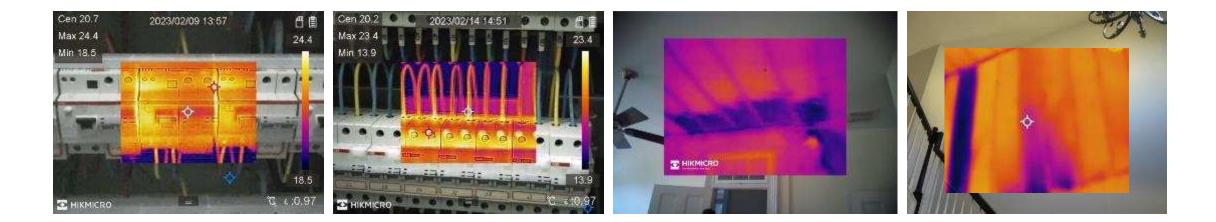


M Series – Visual Imagery



Visual images provide additional details including:

- Part numbers
- Component or equipment type
- Reference location
- Damage to finish materials from underlying issues







M Series - Valuable Visual Image

No need to carry a second traditional camera when performing inspections.

• Automatically captured with thermal

<	Capture Settings				
Capture M	ode		>		
Visual Ima	ge Resolution	2MP	>		
Filename H	leader	ABC	>		
Video Type	e	MP4 (.mp4)	>		
Save Visua	I Image		0		

• Easy to understand file structure



• A LED light illuminates areas in darkness



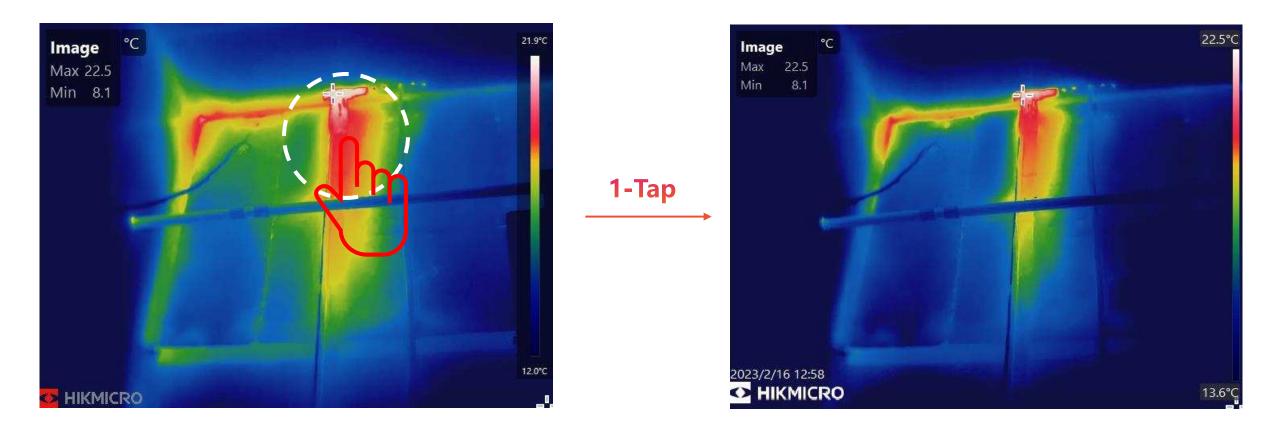




M Series - 1-Tap Level & Span

Quickly highlights the area of the image you are interested in by narrowing the span with one tap on the

3.5" LCD touchscreen, instantly improving image contrast and highlighting potential problems.



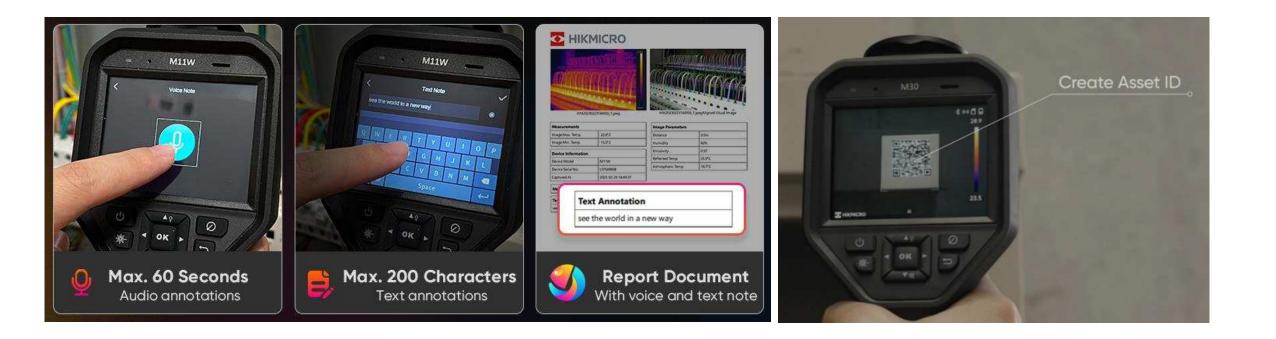




M Series - Complete Image Annotations

Support voice, text, and QR Code Scan annotations, helping to improve inspection efficiency and

productivity.





M Series - Laser Pointer

The Laser Pointer helps show the position of the center point on actual object.







M Series - Interchangeable Battery System



Includes 2 interchangeable Li-ion batteries and a dual bay charger to provide you with **up to 12 hours** of operation. You can stay powered up for even the longest inspections.



Basic Parameters	M11	M11W	M20W	M20	M30	M60
Battery Life	6 hours x 2	4 hours x 2	4 hours x 2			



M Series - Easy to Download Images



Provide 3 ways to download images (Visual & Thermal) off of the camera for reporting

- Wireless via the HIKMICRO Viewer app
- USB cable to computer

Remove SD Card

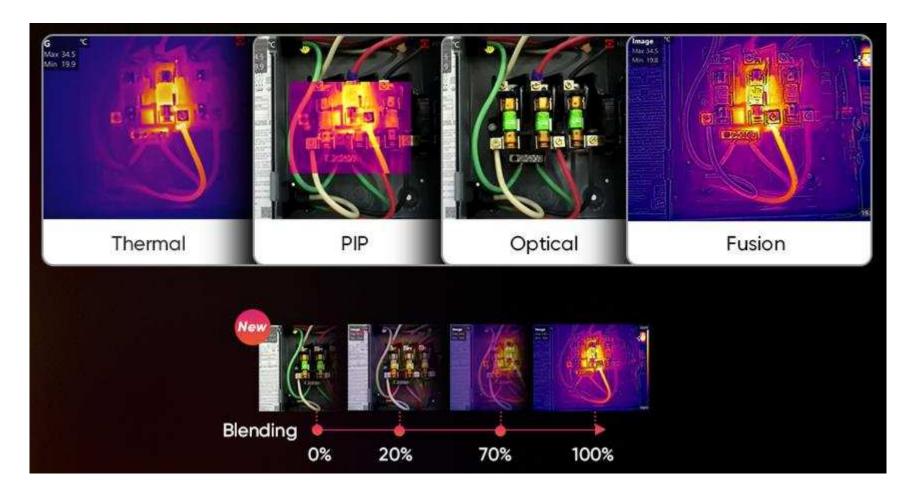






M Series - 5 Image Modes

Thermal, Fusion, PIP, Blending and Optical modes to suit your preferred view







Offers 17 measurement rules, 7 color alarm palettes and 5 image modes for powerful oncamera analysis.



7 Color Alarm Palettes

5 Image Modes

17 Measurement Rules





M Series - Radiometric Video Analysis

Supports recording of radiometric video in camera SD card storage, including all temperature data, for post analysis on PC software. Works seamlessly with HIKMICRO Analyzer software for intuitive viewing, advanced analysis and processing of thermal data.



HIKMICRO Analyzer



M Series - Key Features

Rugged & Durable Design

IP54 rated for protection against water and dust.Featuring 2-meter (6.6ft) drop protection, suitable for industrial use.

Conveniently Share Images and Reports

Connect HIKMICRO Viewer App via Wi-Fi to transfer photos or videos from camera to mobile device. Analyze, share images, and generate reports in real-time on-site.



LED Flashlight

The LED flashlight allows you to work safely in dim or dark environments.

High Capacity Storage

Provides a standard memory SD card up to 64 GB (expandable up to 128 GB) that can store at least 100,000 images or 54 hours of video recording.

Basic Parameters	M11	M11W	M20	M20W	M30	M60
Storage	Default Storage: Removable SD Card (16 GB) ; Max. Storage Capacity: 128 GB				Default Storage: Removable SD Card (64 GB) ; Max. Storage Capacity: 128 GB	
Image Storage Capacity	Approx. 60,000 Images				Approx. 100,000 Images	Approx. 35,000 Images
Video Storage Capacity	Approx. 15 hours				Approx.	54 hours

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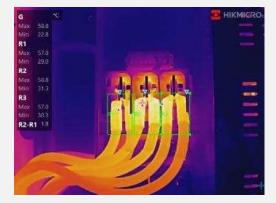
07 COMPETITION



M Series - Application



Users and Benefits



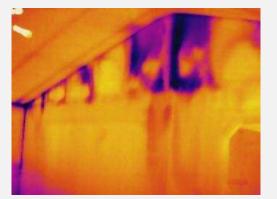
Check Electrical

Predictive Maintenance Technicians



Check Underfloor Heating

Building Maintenance Technicians



Check Insulation Condition

Building Maintenance Technicians



Check Mechanical Status

First Level Maintenance

M Series - Application



HVAC

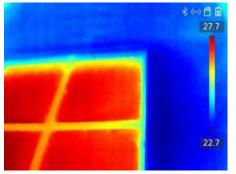
With thermal imaging technology, technicians and heating engineers can make doubly sure that a central heating system has been thoroughly maintained. Not only does this provide peace of mind for the operator themselves, and it also allows them to show clients the results of their work and even help convince 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.



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.

Building Inspection



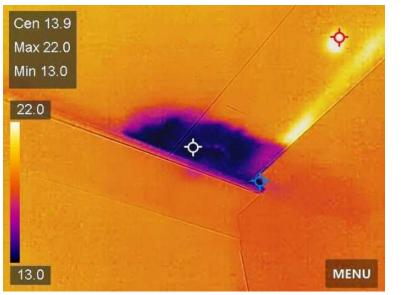
In building inspections, missing or damaged insulation, building envelope air leaks, and moisture intrusion can be very difficult to find before they become serious enough to damage or destroy building contents. Thermal cameras can and have been utilized in the discovery of otherwise undetectable heat,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



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.

M Series - Application

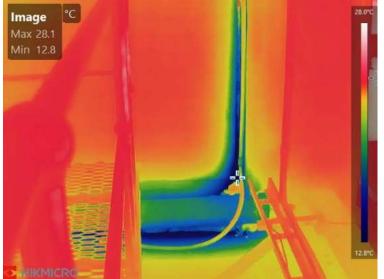


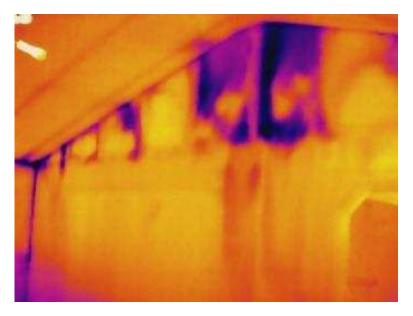
Water Leak Inspection

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.

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.





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.

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M Series - Scope Of Delivery

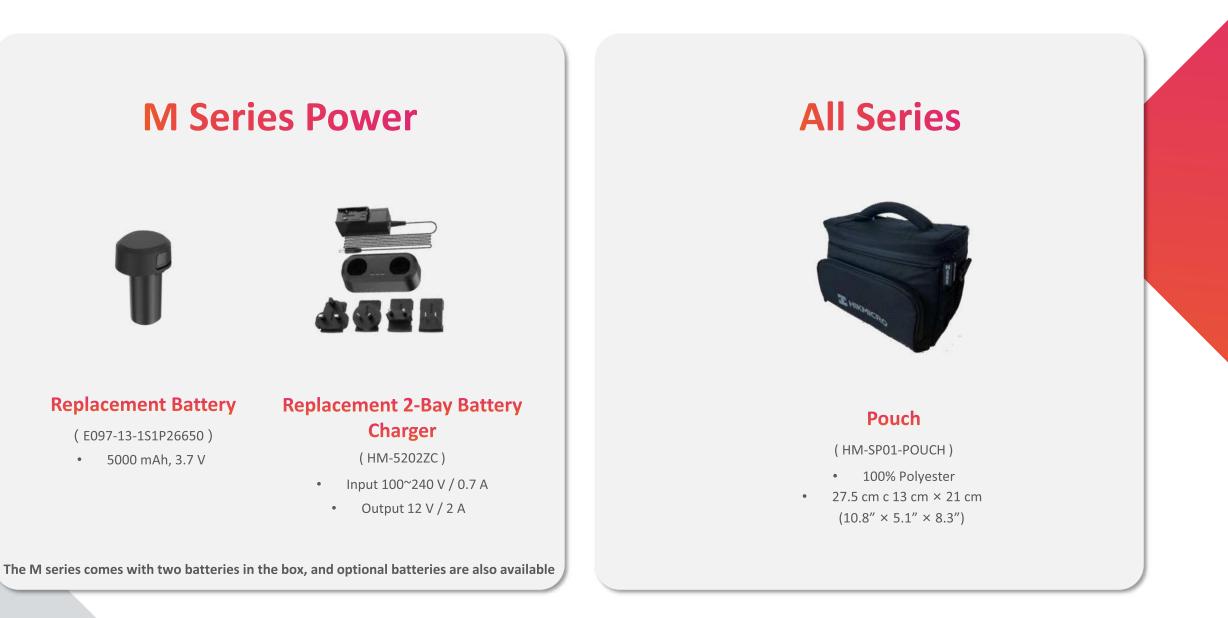


Accessories	Items	Quantity
Device	Thermal Imager	1
	Wrist Strap for Thermal Imager	1
Straps	Shoulder Strap for Hard Carrying Case	1
	Interchangeable and Rechargeable Li-ion Batteries	2
Batteries and	Power Supply for Battery Charger	1
Power	Two-bay Battery Charger	1
	International Use Plugs (US/EU/UK/AU) for Power Supply	4
Cables	USB 2.0 A to USB Type-C Cable	1
Cases and Pouches	Hard Carrying Case	1
	Calibration Certificate	1
Manuals	Quick Start Guide (Baseline) User Manual	1
Storage	16 GB Micro SD card (M11/M11W/M20/M20W) 64 GB Micro SD card(M30/M60)	1



M Series - Optional Accessories





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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.

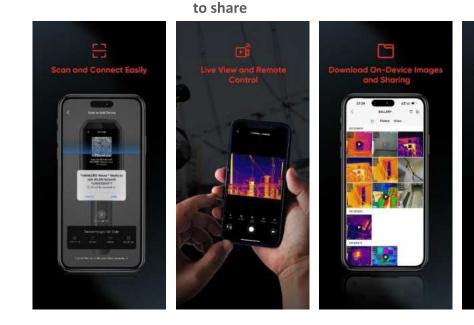
• Free license

Scan and Connect Easily

Download On-Device Images and Video

Live View and Remote Control

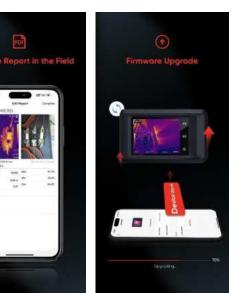
- Firmware Upgrade
- After-sales contacts and online support services
- Turn screen rotation on and off





Quick reporting and sharing

1







Learn more:

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

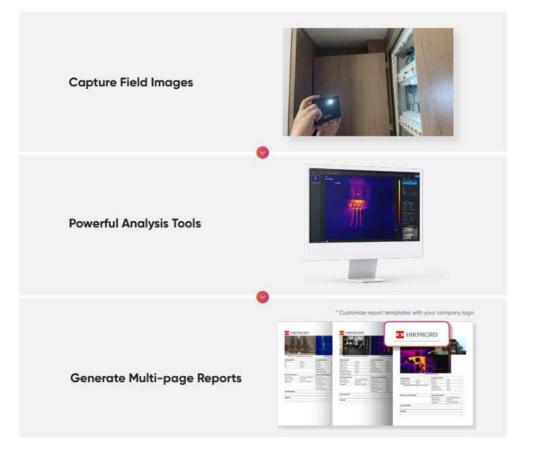






EFFICIENT, POWERFUL THERMAL ANALYSIS AND REPORTING

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

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M11W – Competitive Analysis

FEATURE/PRODUCT	HIKMICRO M11W	FLIR E5 XT	Fluke TiS20+	Fluke TiS20+ Max	
	?				
Thermal Resolution	192 × 144 (27,648 pixels)	160 × 120 pixels	120 x 90 (10,800pixels)	120 x 90 (10,800pixels)	
SuperIR	384 × 288 (110,592 pixels)	N/A	N/A	N/A	
Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)	–20°C to 400°C (-4°F to 752°F) in two ranges	TiS20+: -20 °C to 150 °C (-4°F to 302°F)	-20 °C to 400°C (-4°F to 752°F)	
Accuracy	Max ($\pm 2^{\circ}$ C/3.6°F, $\pm 2^{\circ}$), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (50°F to 95°F) and object temperature above 0°C (32°F)	Target temp at or over 0 °C: Accuracy: ± 2 °C or ± 2 % at 25 °C, whichever is the greater.	Target temp at or over 0 °C: Accuracy: ± 2 °C or ± 2 % at 25 °C, whichever is the greater.	
Field of View	37.2° x 27.8°	45° × 34°	50° H x 38° V	50° H x 38° V	
Focus	Focus free	Focus free	Focus free	Focus free	
Frame Rate	25Hz	9 Hz	9 Hz	9 Hz	
NETD	< 40mK	<100 mK	60 mK	60 mK	
Display	640 × 480 Resolution, 3.5" LCD Touch Screen	3.0 in. 320 × 240 color LCD	320 x 240 LCD, 3.5" LCD touchscreen	320 x 240 LCD, 3.5" LCD touchscreen	
Measurement Rules	Center Spot, Hot Spot, Cold Spot User-definable: 10 spots, 1 line, 5 rectangles, and 5 circles	Center spot; box with min./max.	Max/Min/Center	Max/Min/Center	
Wifi	Yes	Yes	No	No	
Battery Operating Time	Approx. 6 hours	4 hours	5 hours	5 hours	
Warranty	3 Years	2 Years	2 Years	2 Years	



FEATURE/PRODUCT	HIKMICRO M20	Fluke TiS55+	
	P		
Thermal Resolution	256 × 192 (49,152 pixels)	256 x 192 (49,152 pixels)	
SuperIR	512 × 384 (196,608 pixels)	N/A	
Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)	-20 °C to 550 °C (not calibrated below -10 °C)	
Accuracy	Max (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)	$\pm 2~^\circ$ C or 2 % (whichever is greater) at 25 $^\circ$ C ambient temperature	
Field of View	$25^{\circ} \times 18.8^{\circ}$	28° x 20°	
Focus	Manual Focus	Manual focus	
Frame Rate	25 Hz	9 Hz or 27 Hz models	
NETD	< 40 mK (@ 25 °C, F#=1.0)	40mk	
Display	640 \times 480 Resolution, 3.5" LCD Touch Screen	3.5" (8.9 cm landscape) touchscreen 640 x 480 LCD	
Measurement Rules	Center Spot, Hot Spot, Cold Spot User-definable: 10 spots, 1 line, 5 rectangles, and 5 circles	3 user-adjustable rectangles. Size and position are adjustable. Rectangle statistics shown on screen: Min, Max, Average temperature.	
Wifi	Yes	Yes	
Battery Operating Time	Approx. 6 hours	3.5 hours	
Warranty	3 Years	2 Years	



FEATURE/PRODUCT	HIKMICRO M20W	FLIR E6 XT		
	P			
Thermal Resolution	256 × 192 (49,152 pixels)	240 × 180 pixels		
SuperIR	512 × 384 (196,608 pixels)	N/A		
Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)	–20°C to 550°C (-4°F to 1022°F) in two ranges		
Accuracy	Max (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (50°F to 95°F) and object temperature above 0°C (32°F)		
Field of View	$50^{\circ} \times 37.2^{\circ}$	$45^{\circ} \times 34^{\circ}$		
Focus	Focus Free	Focus free		
Frame Rate	25 Hz	9 Hz		
NETD	< 40 mK (@ 25 °C, F#=1.0)	<60 mK		
Display	640 × 480 Resolution, 3.5" LCD Touch Screen	3.0 in. 320 × 240 color LCD		
Measurement Rules	Center Spot, Hot Spot, Cold Spot User-definable: 10 spots, 1 line, 5 rectangles, and 5 circles	Center spot; box with min./max.		
Wifi	Yes	Yes		
Battery Operating Time	Approx. 6 hours	4 hours		
Warranty	3 Years	2 Years		

M30/M60 – Competitive Analysis

FEATURE/PRODUCT	HIKMICRO M30 HIKMICRO M60		FLIR E8	FLIR E8 Pro	TiS75+	
	<u> </u>	P	*			
Thermal Resolution	384 x 288 (110,592 pixels)	640 x 480 (307,200 pixels)	320 × 240 pixels	320 × 240 (76,800 pixels)	384 x 288 (110,592 pixels)	
SuperIR	768 x 576 (442,368 pixels)	1280 x 960 (1,228,800 pixels)	N/A	N/A	N/A	
Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)	-20 °C to 650 °C (-4 °F to 1202 °F)	–20°C to 550°C (-4°F to 1022°F) in two ranges	to 550°C (-4°F to 1022°F) in -20°C to 550°C (-4°F to 1022°F) two ranges in two ranges		
Accuracy	Max (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)	Max (±2°C/3.6°F, ±2%)	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (50°F to 95°F) and object temperature above 0°C (32°F)		′ ±2 °C or 2 % (whichever is greater) at 25 °C ambient temperature	
Field of View	37.5° × 28.5°	41.9° × 33.3°	45° × 34°	33° × 26°	42° x 30°	
Focus	Manual Focus	Manual Focus	Focus free	Focus free	Manual focus	
Frame Rate	25 Hz	25 Hz	9 Hz	9 Hz	9 Hz or 27 Hz models	
NETD	< 35 mK (@ 25 °C, F#=1.0)	< 35 mK (@ 25 °C, F#=1.0)	<0.05°C (0.09°F) / <50 mK	<0.05°C (0.09°F) / <50 mK	40mk	
Display	640 × 480 Resolution, 3.5" LCD Touch Screen	640 × 480 Resolution, 3.5" LCD Touch Screen	3.0 in. 320 × 240 color LCD	3.5 in, 640 × 480 color LCD, Touch screen	3.5" (8.9 cm landscape) touchscreen 640 x 480 LCD	
Measurement Rules	Center Spot, Hot Spot, Cold Spot. User-definable: 10 spots, 1 line, 5 rectangles, and 5 circles	Center Spot, Hot Spot, Cold Spot User-definable: 10 spots, 1 line, 5 rectangles, and 5 circles	Center spot; box with min./max.	Center spot; box with min/max	5 user-adjustable rectangles. Size and position are adjustable. Rectangle statistics shown on screen: Min, Max, Average temperature.	
Wifi	Yes	Yes	Yes	Yes	Yes	
Battery Operating Time	Approx. 4 hours	Approx. 4 hours	Approx. 4 hours	Approx. 4 hours	3.5 hours	
Warranty	3 Years	3 Years	2 Years	2 Years	2 Years	

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COMPARISON(Internal Use

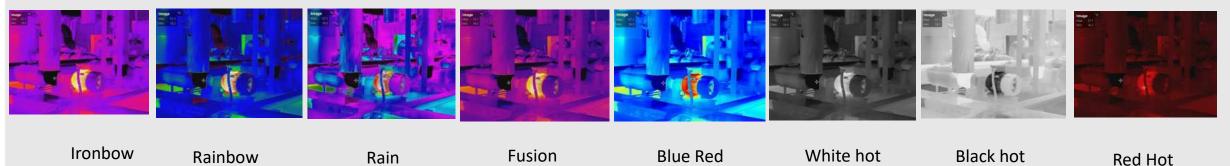
Only)

M Series - Images Quality Comparison (Internal Use Only)

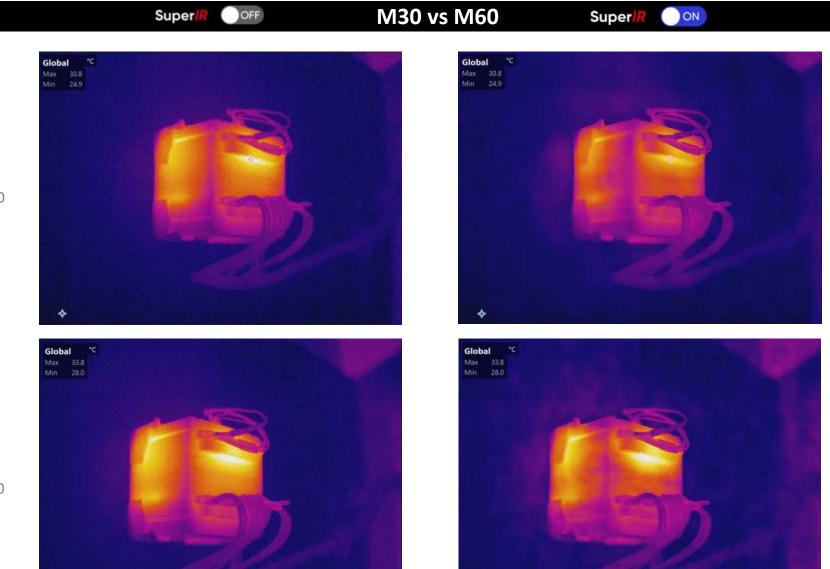


	M11	M11W	M20	M20W	M30	M60	
IR	192 × 144 (27,648 pixels)	192 × 144 (27,648 pixels)	256 × 192 (49,152 pixels)	256 × 192 (49,152 pixels)	384 x 288 (110,592 pixels)	640 x 480 (307,200 pixels)	
SuperIR	384 × 288 (110,592 pixels)	384 × 288 (110,592 pixels)	512 × 384 (196,608 pixels)	512 × 384 (196,608 pixels)	768 x 576 (442,368 pixels)	1280 x 960 (1,228,800 pixels)	
Image Mode	5: Thermal/Visual/Fusion/PIP/Blending						
Palettes	8: White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red						
Min. Focus Distance	0.1 m(0.33 ft)	0.5 m (1.64 ft)	0.1 m (0.33 ft)	0.5 m (1.64 ft)	0.2 m (0.65 ft)	0.3 m (0.98 ft)	

• 8 color palettes







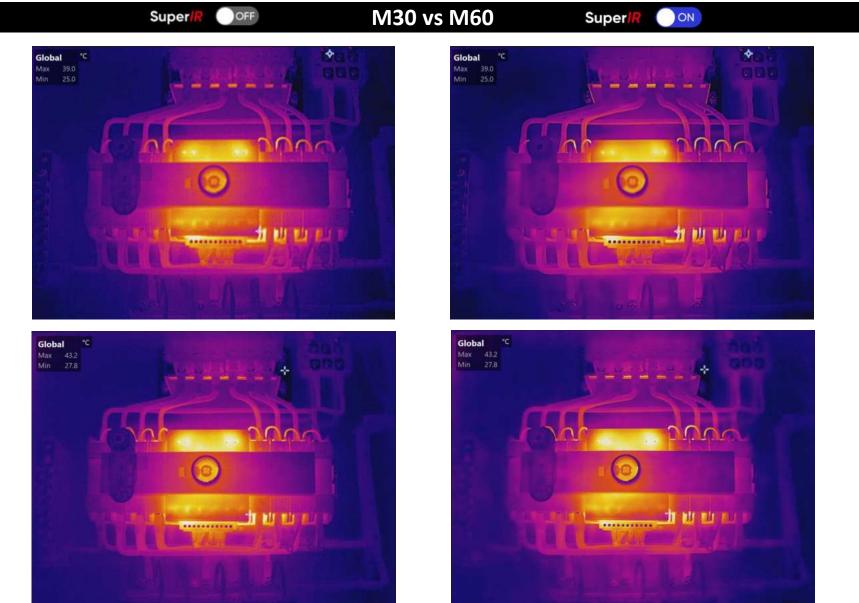
M30



30 cm

M60





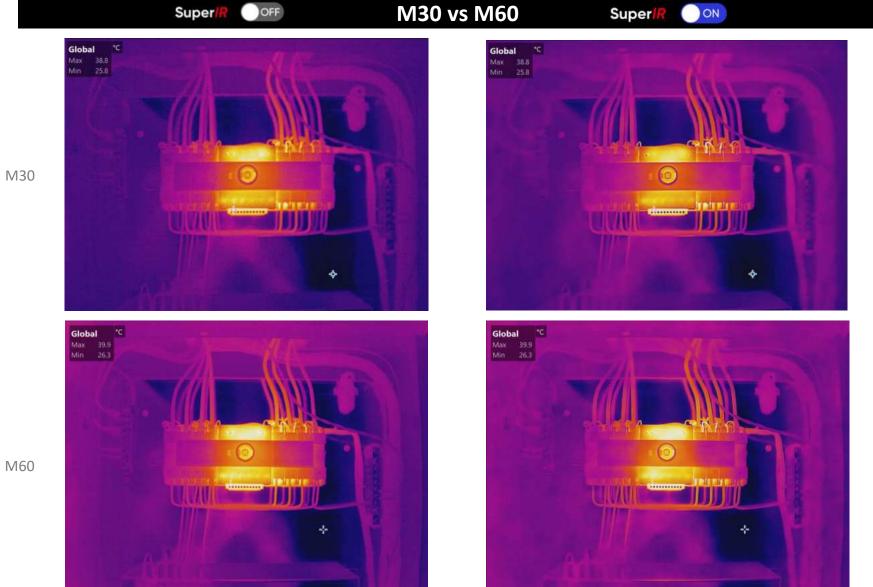
M30



50 cm

M60



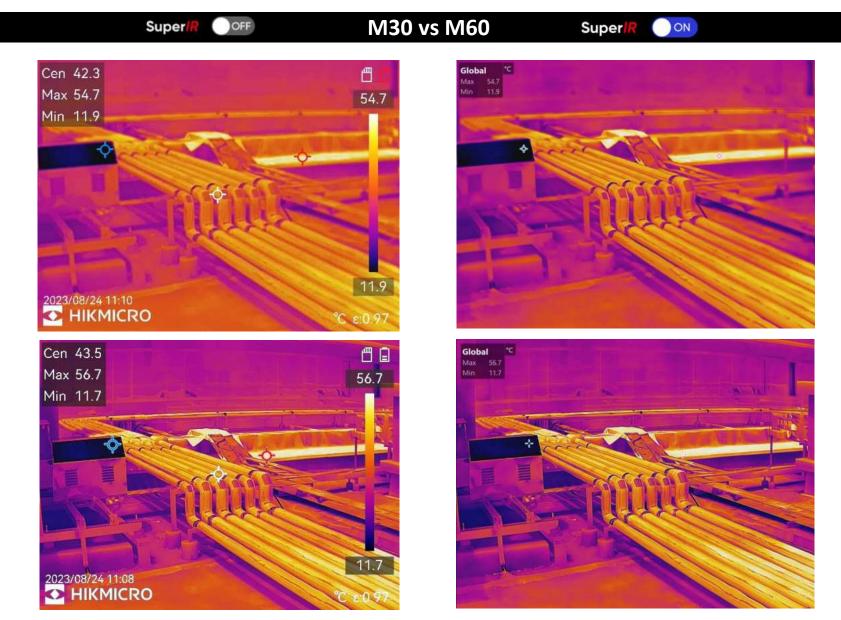


M30



1 m





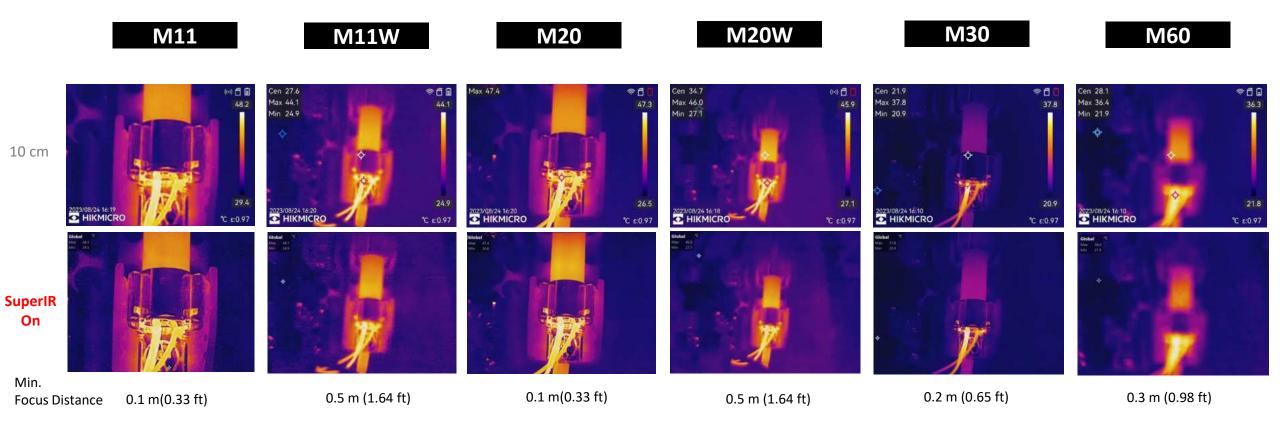
M30



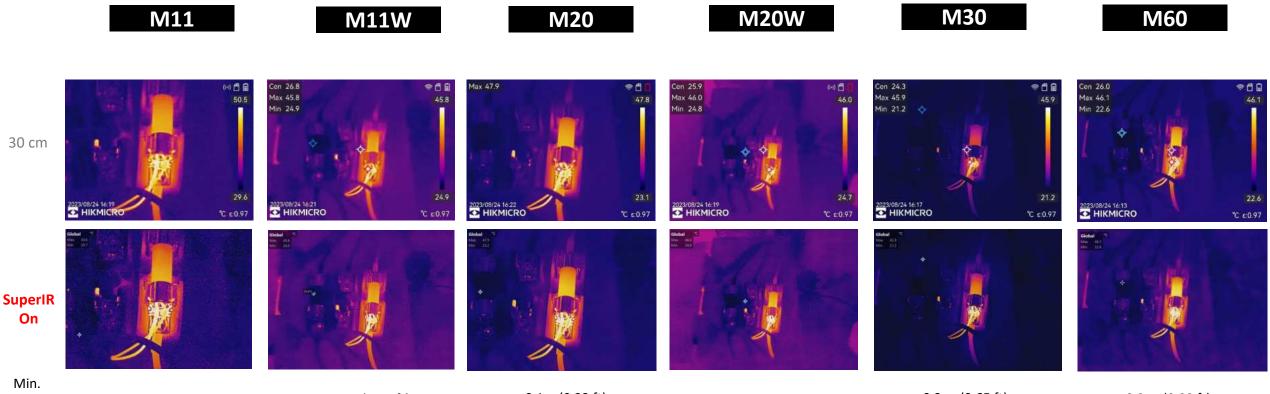
5 m

M60

M Series - Comparison Of Images Short Distance (Internal Use Only)



M Series - Comparison Of Images Short Distance (Internal Use Only) 💁 HIKMICRO



Min. 0.1 m(0.33 ft) **Focus Distance**

On

0.5 m (1.64 ft)

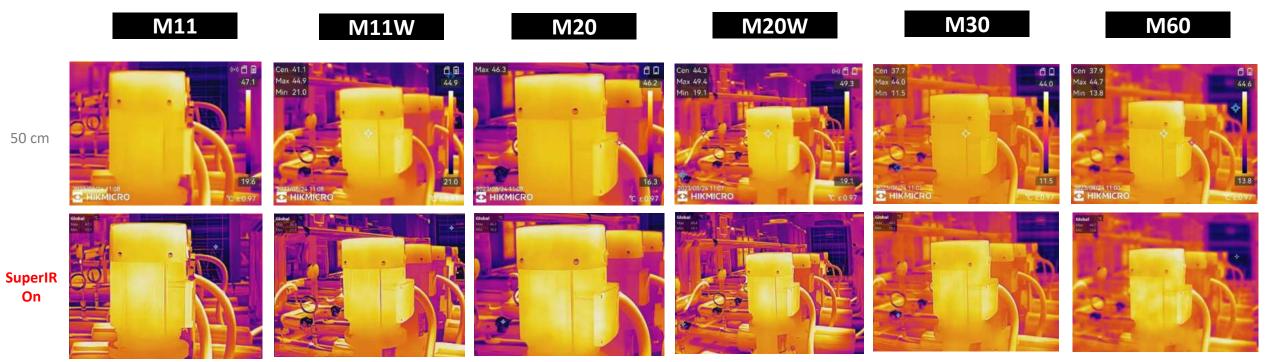
0.1 m(0.33 ft)

0.5 m (1.64 ft)

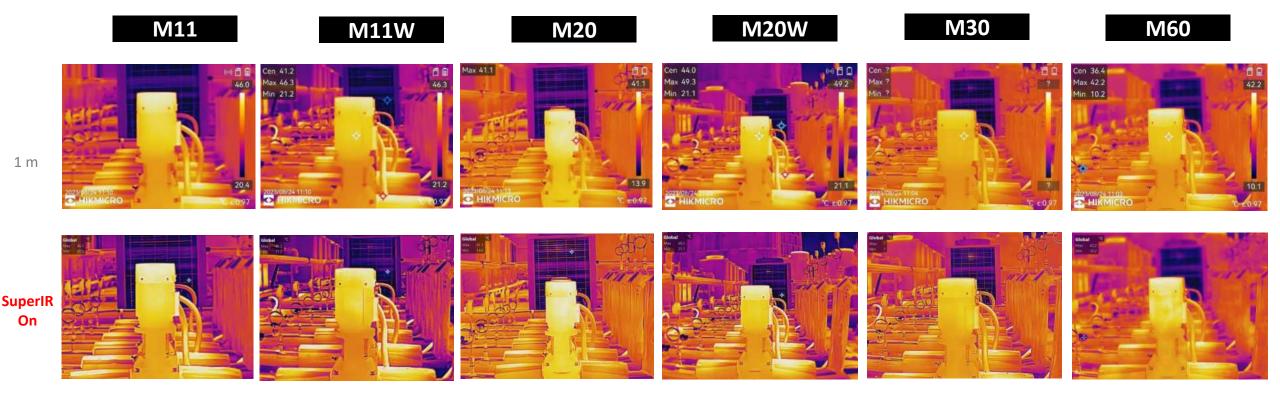
0.2 m (0.65 ft)

0.3 m (0.98 ft)

M Series - Comparison Of Images Medium Distance(Internal Use Only HIKMICRO

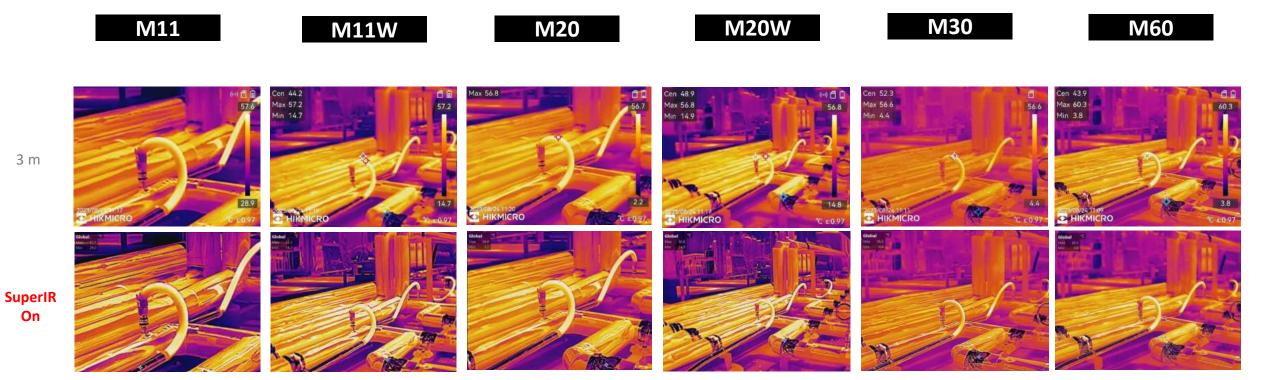


M Series - Comparison Of Images Medium Distance(Internal Use Only HIKMICRO



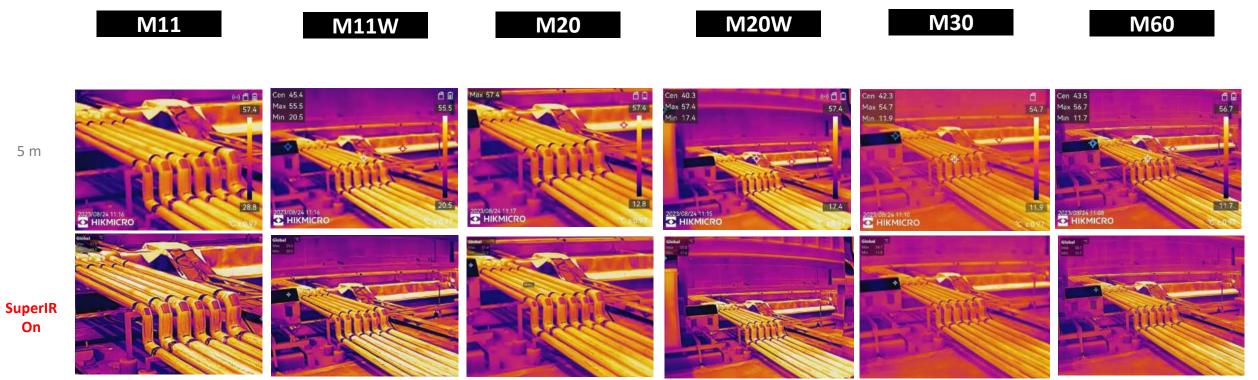
M Series - Comparison Of Images Long Distance (Internal Use Only)



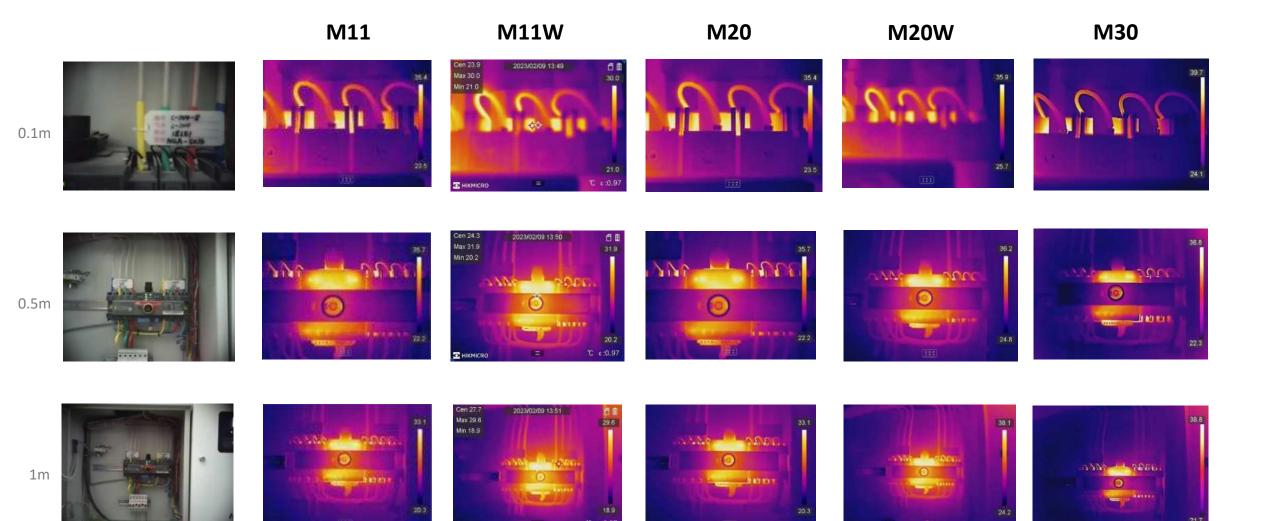


M Series - Comparison Of Images Long Distance (Internal Use Only)



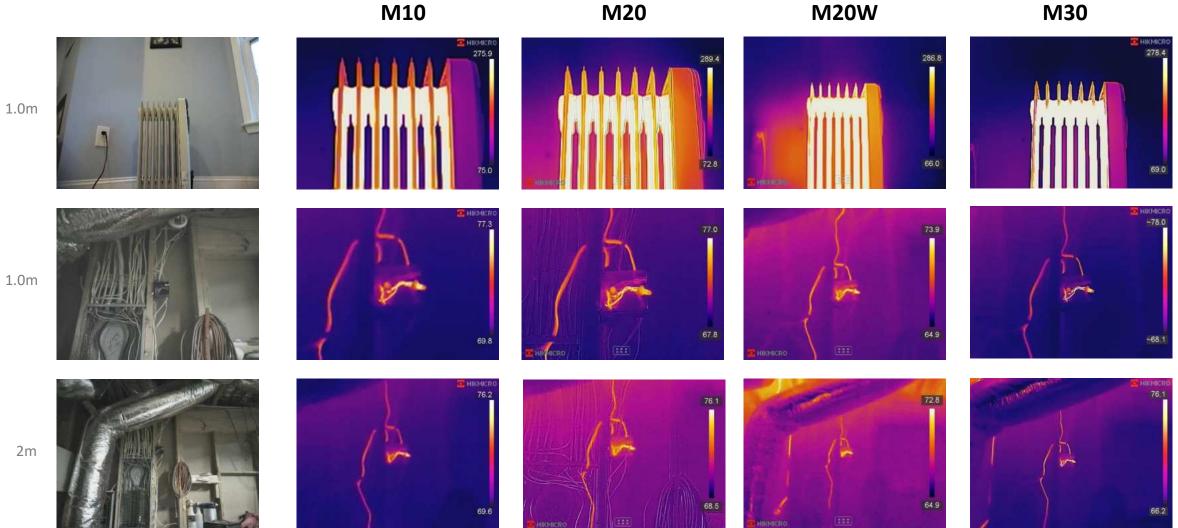






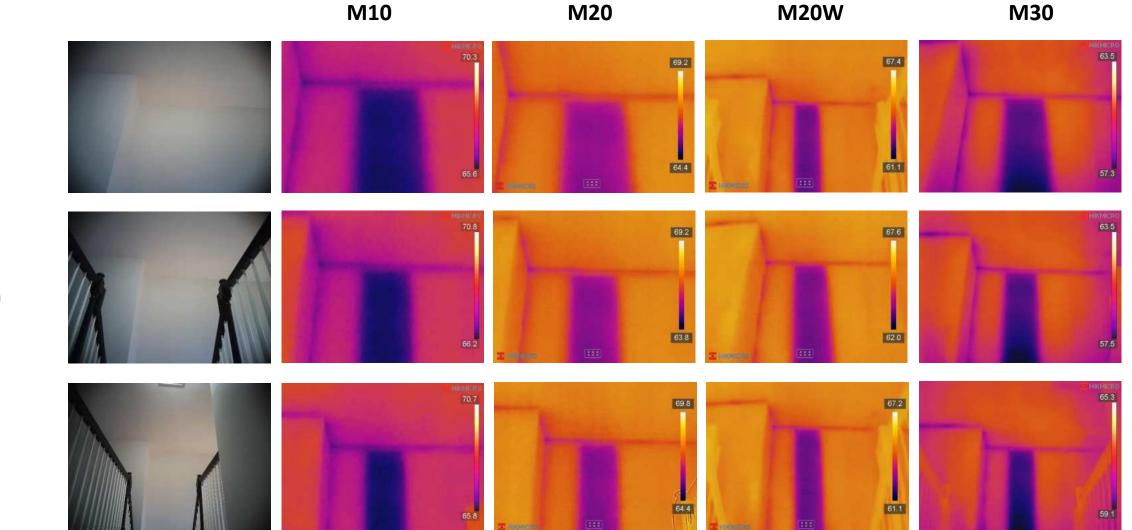
* The M11W/M20W is equipped with a focus-free lens with a minimum focusing distance of 0.5 m (1.64 ft).





1.0m





3.0m

4.0m

5.0m

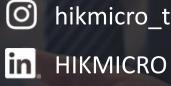


THANK YOU

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