



FIXED THERMAL CAMERA

SEE THE WORLD IN A NEW WAY



CONTENTS

1

ABOUT HIKMICRO

ABOUT HIKMICRO	5
----------------------	---

2

PRODUCT INTRODUCTION

PRODUCT INTRODUCTION	7
----------------------------	---

3

SOFTWARE SUPPORT

HIKMICRO STUDIO & HIKMICRO ANALYZER	23
---	----



ABOUT HIKMICRO

HIKMICRO is a leading provider of thermal imaging equipment and solutions. Specializing in thermal technology innovation, the company offers thermal cores, modules, cameras, total solutions, and also night vision products, which can be used in outdoor, industrial, and security industries globally, serving customers in over 100 countries and regions.



COMPANY STRENGTHS

Free Long Warranty

HIKMICRO provides a 3-10 warranty period (from the date of purchase) that exceeds the industry standard level of handheld thermography products. For details, please refer to the following:

- ♦ 3 years components and labor coverage for the full product
- ♦ 10 years of coverage for the detector – the most important part of the whole product!



Local Repair Service

- ♦ HIKMICRO provides customers with comprehensive maintenance services to ensure the stable operation of your products and respond to failures in the shortest possible time, minimizing camera downtime.

Local Support and Training Service

- ♦ International subsidiaries and local offices provides localized marketing and technical support. Professional technicians train the staff of authorized stores regularly.
- ♦ HIKMICRO provides immediate technical consultation via official site, email and 24 hours hotline.

Global Calibration Services

- ♦ HIKMICRO is pleased to offer official calibration and authorization calibration services for end users through our global sites. Contact your local office for details.



PRODUCT STRENGTHS

Image Frequency

Up to 100 Hz delivers smooth video and measurements while panning across scenes or viewing moving targets.

Accuracy

Up to $\pm 1^{\circ}\text{C}$ accuracy and repeatable temperature measurements based on our high stability detector, optics design, and quality control.

MULTIPLE INTEGRATION SOLUTIONS

Support Onvif, ISAPI, SDK temperature data output, open type network Video interface protocol, personalized according to demand.

Network SDK for Windows
32-bit/64-bit

ONVIF (Profile S, Profile G)

UVC Integration

ISAPI protocol docs

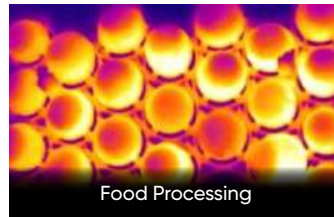
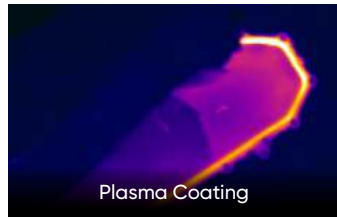
Modbus RS-485 and TCP/IP docs

Analyzer SDK Integration



Focus Free Box Camera

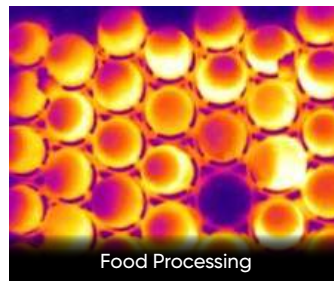
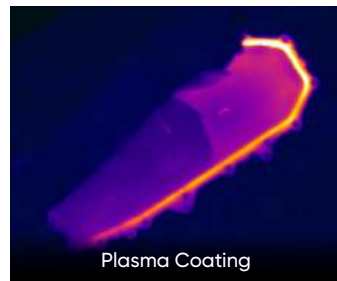
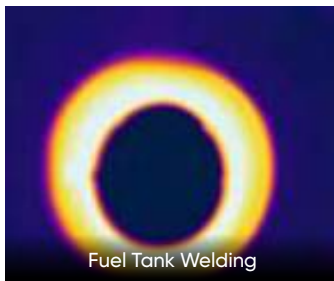
- Outstanding image quality with up to 640x512 pixels
- High frame rate up to 50 fps
- Temperature measurement range from -20° C to 650° C with accuracy of $\pm 2^\circ \text{C}$ or $\pm 2\%$
- Multiple protocols for easy integration



Basic model		QF310	QF610
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	
	Resolution	384 × 288	640 × 512
	Spectral Range	8 μm to 14 μm	
	NETD	$\leq 30 \text{ mk} (@25^\circ \text{C}, F\# = 1.0)$	
	Focal Length	3 mm, 4 mm, 8 mm, 10 mm, 18 mm	5 mm, 10 mm, 18 mm
	Focus Mode	Focus Free	
	IFOV	3 mm : 4.00 mrad 4 mm : 3.00 mrad 8 mm : 1.50 mrad 10 mm : 1.20 mrad 18 mm : 0.67 mrad	5mm : 2.40mrad 10mm: 1.20mrad 18mm: 0.67mrad
	Field of View	3 mm : 90.0°(H)×65.0°(V) 4 mm : 60.4°(H)×44.9°(V) 8 mm : 34.0°(H)×26.0°(V) 10 mm : 27.0°(H)×20.4°(V) 18 mm : 13.7°(H)×10.4°(V)	5mm : 90.0°(H)×70.1°(V) 10mm: 45.2°(H)×36.1°(V) 18mm: 24.2°(H)×19.4°(V)
	Image Frequency	50 Hz	
	Min. Focusing Distance	3 mm : 0.15 m 4 mm : 0.25 m 8 mm : 0.80 m 10 mm : 1.30 m 18 mm : 5.00 m	5mm : 0.35 m 10mm: 1.30 m 18mm: 4.00 m
Measurement and Analysis	Object Temperature Range	-20 °C to 150 °C , 0°C to 650 °C	
	Temperature Accuracy	Max ($\pm 2^\circ \text{C}$, $\pm 2\%$)	
	Measurement Presets	3 temperature measurement rule types, 21 rules (max. 21 points, max. 21 regions, and max. 1 line). *The total No. of rules enabled at the same time can't exceed 21.	
Network	Integration Protocols	Modbus TCP, Modbus RTU, Onvif, SDK, ISAPI	
Interface	Alarm Input	1, alarm input (0-3.3 VDC)	
	Alarm Output	1, alarm output; NO, Built-in relay (max. DC 60V 1.3A)	
	Analog Output	1, CVBS output	
	Communication Interface	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available) 1, USB type-c port that supports the UVC protocol	
General	Power Supply	12 V DC, Max. 3.2 W	
	Protection Level	IP40	
	Dimensions	3 mm : 67.5 × 44.2 × 44.2 mm 4 mm : 71.8 × 44.2 × 44.2 mm 8 mm : 79.8 × 44.2 × 44.2 mm 10 mm : 69.8 × 44.2 × 44.2 mm 18 mm : 69.8 × 44.2 × 44.2 mm	5mm : 79.6 × 44.2 × 44.2 mm 10mm: 71.8 × 44.2 × 44.2 mm 18mm: 69.8 × 44.2 × 44.2 mm

Auto-Focus Box Camera

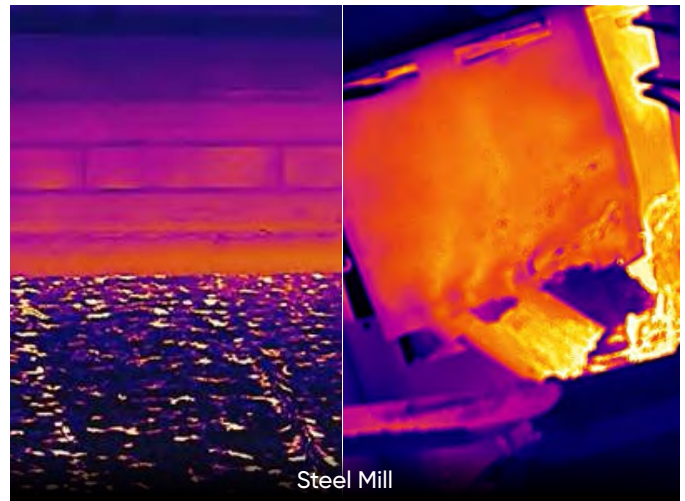
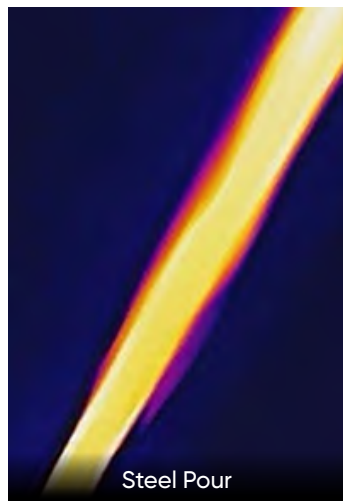
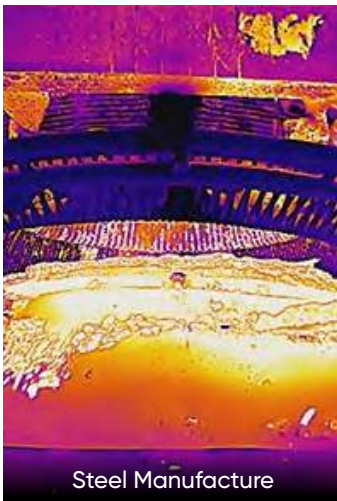
- Outstanding image quality with up to 640x512 pixels
- High frame rate up to 50fps
- Support Semi-auto & Manual as the focus mode
- Temperature measurement range from -20° C to 650° C with accuracy of $\pm 2^\circ \text{C}$ or $\pm 2\%$



Basic model		HM-TD2A37T-15/Q	HM-TD2A37T-25/Q	HM-TD2A67T-15/Q	HM-TD2A67T-25/Q
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays			
	Resolution	384 × 288		640 × 512	
	Spectral Range	8 μm to 14 μm			
	NETD	≤ 35 mK (@25° C,F# = 1)			
	Focal Length	15 mm	25 mm	15 mm	25 mm
	Focus Mode	Semi-auto & Manual			
	IFOV	1.13 mrad	0.68 mrad	1.13 mrad	0.68 mrad
	Field of View	25.3° × 18.9° (H × V)	14.8° × 11.1° (H × V)	41.9° × 33.4° (H × V)	25° × 20° (H × V)
	Image Frequency	50 Hz			
	Min. Focusing Distance	0.5 m			
Measurement and Analysis	Object Temperature Range	-20 °C to 150 °C , 0°C to 650 °C			
	Temperature Accuracy	Max (± 2 °C, ± 2%)			
	Measurement Presets	Hot spot, cold spot in real time			
Network	Integration Protocols	MODBUS, ISAPI, Network SDK, Open Network Video Interface (Profile S, Profile G)			
Interface	Alarm Input	1, alarm input (0-3.3 VDC)			
	Alarm Output	1, alarm output; NC, level quantity			
	Analog Output	1, CVBS output			
	Communication Interface	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)			
General	Power Supply	10-30 VDC, Max. 4.8 W			
	Protection Level	IP40			
	Dimensions	93 mm × 50 mm × 50 mm	93 mm × 50 mm × 50 mm	95 mm × 50 mm × 50 mm	93 mm × 50 mm × 50 mm

High Temperature Box Camera

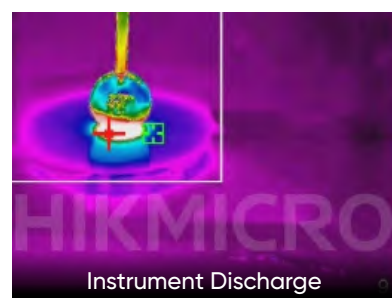
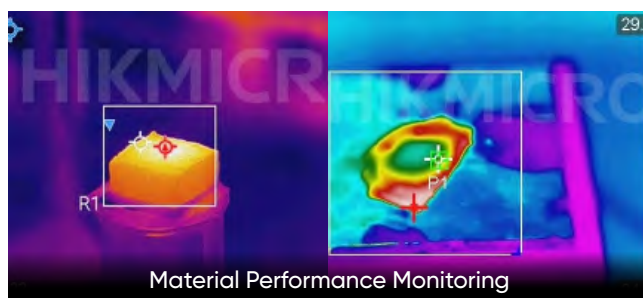
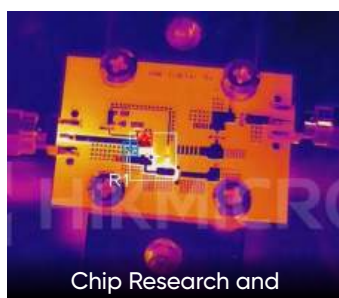
- Outstanding image quality with up to 640x512 pixels
- High frame rate up to 50fps
- Multiple protocols for easy integration
- Temperature measurement range from 100°C to 1800°C , with accuracy up to ±2%



Basic model		HM-TD2A67H2-7/Q	M-TD2A67H1-15/Q	HM-TD2A67H1-25/Q
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays		
	Resolution	640 × 512		
	Spectral Range	8 μm to 14 μm		
	NETD	≤ 35 mK (@25° C, F# = 1)		
	Focal Length	7 mm	15 mm	25 mm
	IFOV	2.42 mrad	1.13 mrad	0.68 mrad
	Field of View	90.0° × 73.8° (H × V)	41.5° × 33.3° (H × V)	24.8° × 19.9° (H × V)
	Image Frequency	50Hz		
	Min. Focusing Distance	0.5 m		
Measurement and Analysis	Object Temperature Range	0°C to 1000°C	0°C to 800°C, 600 °C to 1800 °C	
	Temperature Accuracy	Object temperature 100°C to 1000°C,±2% for ambient temperature 18°C to 25°C and ±3% for ambient temperature 25°C to 50°C	Object temperature 100°C to 1800°C, ±2% for ambient temperature 18°C to 25°C and ±3% for ambient temperature 25°C to 50°C	
	Measurement Presets	Hot spot, cold spot in real time		
Network	Integration Protocols	MODBUS, ISAPI, Network SDK, Open Network Video Interface (Profile S, Profile G)		
Interface	Alarm Input	1, alarm input (0-3.3 VDC)		
	Alarm Output	1, alarm output; NC, level quantity		
	Analog Output	1, CVBS output		
	Communication Interface	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)		
General	Power Supply	10-30 VDC, Max. 4.8 W		
	Protection Level	IP40		
	Dimensions	100.6mm × 50 mm × 50 mm	93 mm × 50 mm × 50 mm	95 mm × 50 mm × 50 mm

R&D Box Camera

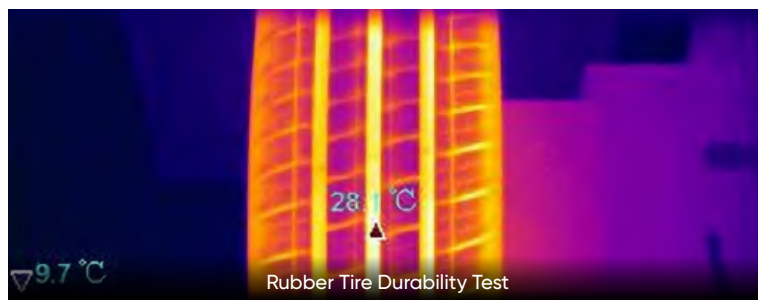
- Outstanding image quality with up to 640x512 pixels
- High frame rate up to 50fps
- Equipped with dual-view lens, only one single twist to switch between macro lens and normal lens, highly improves observation efficiency.
- Designed with standard 1/4 threaded hole, easily cope with various installation scenarios (tripod, etc.).



Basic model		HM-TD2C68E-25/Q
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Resolution	640 × 512
	Spectral Range	8 μm to 14 μm
	NETD	< 35 mK (25 °C, F# = 1.0)
	Focal Length	25 mm
	Focus Mode	Athermalized
	IFOV	0.48 mrad
	Field of View	15cm: 17.5°(H) x 14°(V) x 22.3°(D) 4.3cm: 17.9°(H) x 14.3°(V) x 23.0°(D)
	Image Frequency	50 Hz
	Min. Focusing Distance	0.15 m
	Spot Size	35μm
Measurement and Analysis	Object Temperature Range	-20°C to 150°C , 0°C to 650 °C
	Temperature Accuracy	Range -20~150°C: -20~100°C:±1°C, 100~150°C:±1% Range 0~650°C: 0~100°C:±2°C, 100~650°C:±2%
	Measurement Presets	Hot spot, cold spot in real time
Network	Integration Protocols	MODBUS, ISAPI, Network SDK, Open Network Video Interface (Profile S, Profile G)
Interface	Alarm Input	1, alarm input (0-3.3 VDC)
	Alarm Output	1, alarm output; NO, Built-in relay (max. DC 60V 1.3A)
	Analog Output	1, CVBS output
	Communication Interface	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)
General	Power Supply	10-30 VDC, Max. 3 W
	Protection Level	IP40
	Dimensions	138.4 mm × 79 mm × 80 mm

High Frame Rate R&D Box Camera

- Outstanding image quality with up to 640x512 pixels
- With frame rate up to 100Hz and thermal response time down to 4ms, capturing each moment of high-speed objects
- Accurately measures temperatures from -20°C to 650°C, with a temperature accuracy up to $\pm 1^\circ\text{C}$ / $\pm 1\%$ for range -20°C to 150°C
- Multiple protocols for easy integration



Basic model		QD610
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Resolution	640 × 512
	Spectral Range	8 μm to 14 μm
	NETD	< 35 mK (25 °C, F# = 1.0)
	Focal Length	7 mm
	Focus Mode	Athermalized
	IFOV	1.7 mrad
	Field of View	640×512 : 90.4°(H) ×75°(V) ×114°(D) 384×288 : 55.8°(H) ×42.1°(V) ×69°(D)
	Image Frequency	50 Hz (640×512) 100 Hz (384×288)
	Min. Focusing Distance	0.5 m
Measurement and Analysis	Object Temperature Range	Range -20°C~150°C Range 0°C~650 °C
	Temperature Accuracy	Range -20~150°C: -20~100°C:±1°C, 100~150°C:±1% Range 0~650°C: 0~100°C:±2°C, 100~650°C:±2%
	Measurement Presets	Hot spot, cold spot in real time
Network	Integration Protocols	MODBUS, ISAPI, Network SDK, Open Network Video Interface (Profile S, Profile G)
Interface	Alarm Input	1, alarm input (0-3.3 VDC)
	Alarm Output	1, alarm output; NC, External relay required
	Analog Output	1, CVBS output
	Communication Interface	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)
General	Power Supply	12-24 VDC, Max. 4.2 W
	Protection Level	IP42
	Dimensions	103.5mm × 50mm × 50 mm

Explosion-proof Bullet Camera

- Thermal camera with 640x512 pixels and visible camera with 2688x1520 pixels
- Temperature measurement range from -20°C to 650°C
- ATEX and IECEx certified for hazardous area
- 316L stainless steel enclosure with NEMA 4X



Mining Industry



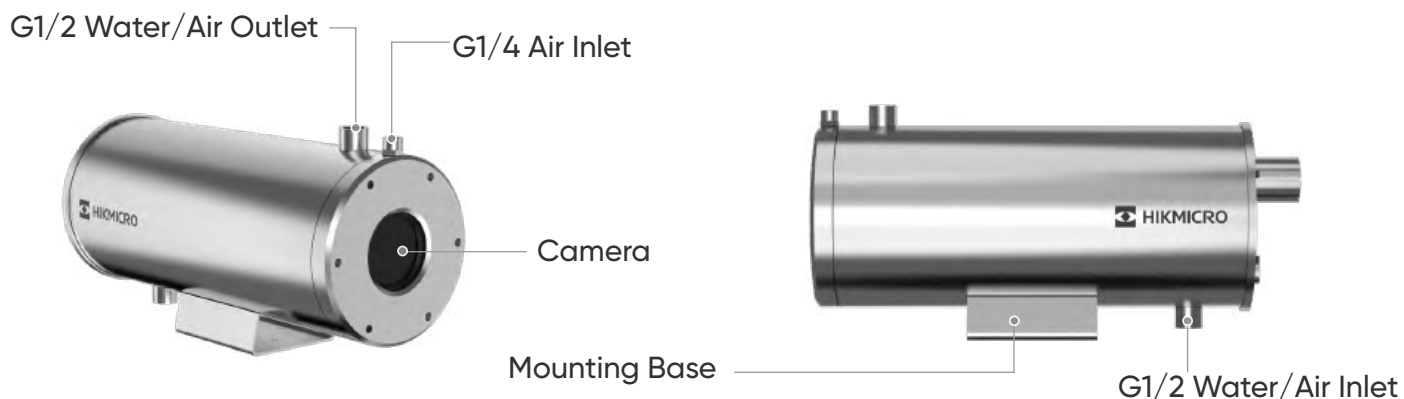
Explosive Material Warehouse



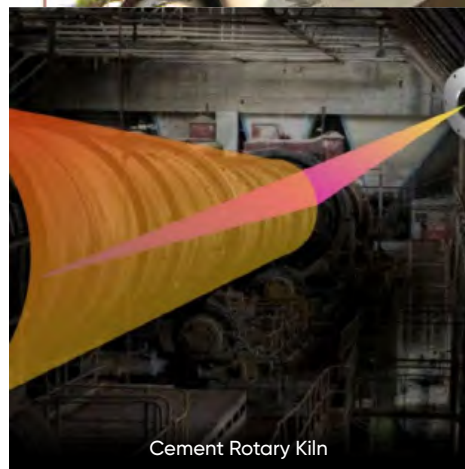
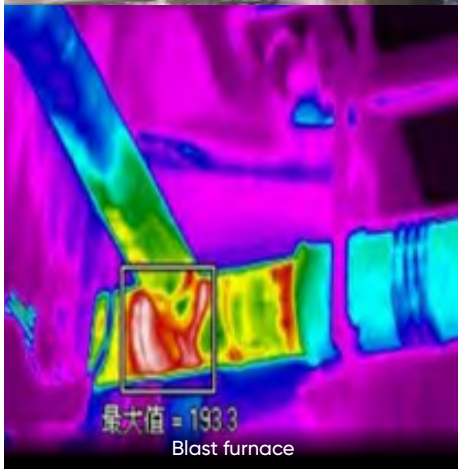
Oil Workshop

Basic model		DS-2TD2528T -3/Q	DS-2TD2528T -7/Q	DS2TD2528T -10/Q	DS-2TD2537T -4/Q	DS2TD2537T -10/Q	DS-2TD2537T -15/Q	DS2TD2568T -5/G0/T1Y	DS-2TD2568T -15/G0/T1Y
Thermal	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays							
	Resolution	256 × 192			384 × 288			640 × 512	
	Spectral Range	8 μm to 14 μm							
	NETD	< 40 mk (@25°C), F#=1.0			< 35 mk (@25°C), F#=1.0			≤ 25 mK (@25° C,F# = 1.0)	
	Focal Length	3.6 mm	6.9 mm	9.7 mm	4.4 mm	9.7 mm	15 mm	5.1 mm	15 mm
	IFOV	3.33 mrad	1.74 mrad	1.24 mrad	3.86 mrad	1.75 mrad	1.13 mrad	2.35 mrad	0.8 mrad
	Field of View	50.0° × 37.3° (H × V)	24.9° × 18.7° (H × V)	18° × 13.5° (H × V)	90.0° × 65.4° (H × V)	37.9° × 28.7° (H × V)	24.2° × 18.4° (H × V)	90° × 67.2° (H × V)	29.7° × 23.6° (H × V)
	Min. Focusing Distance	0.5 m		1.5 m	0.5 m	1.5 m	3m	1 m	3 m
Visual Camera	Resolution	2688 × 1520, 4MP							
Measurement and Analysis	Object Temperature Range	-20°C to 650°C							
	Temperature Accuracy	Max (± 2 °C, ± 2%)							
Interface	Alarm Input	2-ch inputs (0 to 5 VDC)							
	Alarm Output	2-ch relay outputs, alarm response actions configurable							
	Communication	4.1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface (half duplex)							
General	Explosion-Proof Protection	ATEX: II 2 G Ex db IIC T6 Gb/II 2 D Ex tb IIIC T80°C Db IECEx: Ex db IIC T6 Gb/ Ex tb IIIC T80°C Db							
	Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018), C5							
	Protection Level	IP68 Standard, TVS 6000V Lightning protection, surge protection, voltage transient protection							
	Dimensions	286.7 mm × 175.2 mm × 150.1 mm			301.7 mm × 179.2 mm × 152.0 mm	286.7 mm × 175.2 mm × 150.1 mm		290.7 mm × 177.5 mm × 152.0 mm	

Heat Resistant Bullet Camera



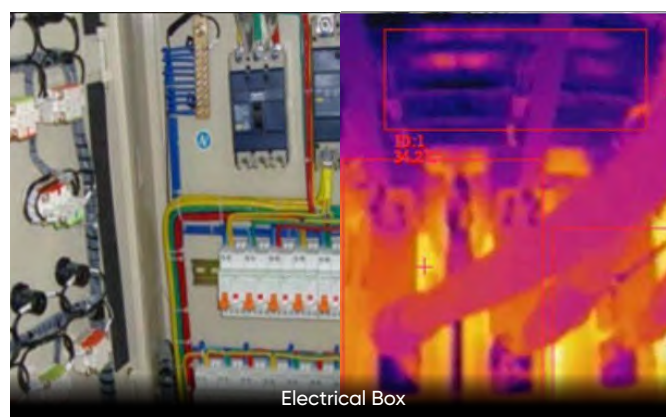
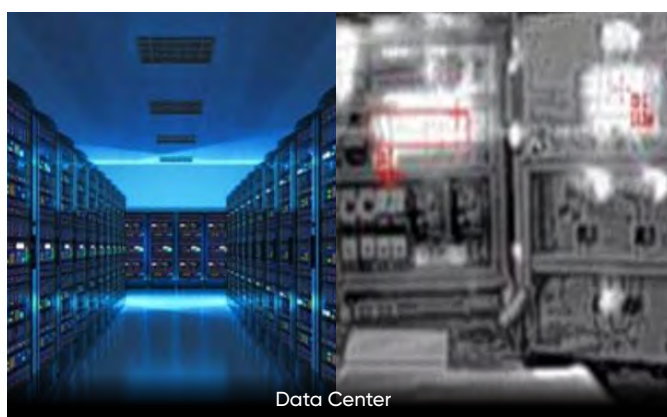
- Outstanding image quality with up to 640x512 pixels
- Temperature measurement range from 0°C to 1800 °C
- IP67-rated for harsh environment
- Working at high ambient temperature Environment up to 200°C with additional air or liquid cooling system



Basic model		HM-TD2H67H1-15/Q	HM-TD2H67H1-25/Q	HF310	HF610
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays			
	Resolution	640 × 512		384 x 288	640 × 512
	Spectral Range	8 μm to 14 μm			
	NETD	≤ 35 mK (@25°C, F# = 1.0)		≤ 30 mk(@25 °C,F#=1.0)	
	Focal Length	15mm	25 mm	3 mm 4 mm 8 mm 10 mm 18 mm	5 mm 10 mm 18 mm
	IFOV	1.13 mrad	0.68 mrad	3 mm : 4.00 mrad 4 mm : 3.00 mrad 8 mm : 1.50 mrad 10 mm : 1.20 mrad 18 mm : 0.67 mrad	5 mm : 2.40mrad 10 mm : 1.20mrad 18 mm : 0.67mrad
	Field of View	41.5° × 33.3° (H × V)	24.8° × 19.9° (H × V)	3 mm : 90.0°(H)×65.0°(V) 4 mm : 60.4°(H)×44.9°(V) 8 mm : 34.0°(H)×26.0°(V) 10 mm : 27.0°(H)×20.4°(V) 18 mm : 13.7°(H)×10.4°(V)	5 mm : 90.0°(H)×70.1°(V) 10 mm: 45.2°(H)×36.1°(V) 18 mm: 24.2°(H)×19.4°(V)
	Image Frequency	50 Hz	50 Hz	50 Hz	50 Hz
	Min. Focusing Distance	0.5 m	0.5 m	3 mm : 0.15 m 4 mm : 0.25 m 8 mm : 0.80 m 10 mm : 1.30 m 18 mm : 5.00 m	5 mm : 0.35 m 10 mm: 1.30 m 18 mm: 4.00 m
Measurement and Analysis	Object Temperature Range	0 °C to 800 °C, 600 °C to 1800 °C	0 °C to 1800 °C	-20 °C to 150 °C , 0 °C to 650 °C	
	Temperature	Object temperature 100 °C to 1800 °C, ±2% for ambient temperature 18 °C to 25 °C and ±3% for ambient temperature 25 °C to 50 °C		Max (± 2 °C, ± 2%)	
	Measurement	Hot spot, cold spot in real time		3 temperature measurement rule types, 21 rules (max. 21 points, max. 21 regions, and max. 1 line). *The total No. of rules enabled at the same time can't exceed 21.	
Interface	Integration	MODBUS, ISAPI, Network SDK, Open Network Video Interface (Profile S, Profile G)			
	Alarm Input	1, alarm input (0-3.3 VDC)			
	Alarm Output	1, alarm output; NC, level quantity		1, alarm output; NO, Built-in relay (max. DC 60V 1.3A)	
	Analog Output	1, CVBS output			
	Communication	1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1, RS-485 interface (ModBus available)		1, RJ45 10 M/100 M/1000 M self-adaptive Ethernet interface 1,RS-485 interface (ModBus available)	
General	Power Supply	10-30 VDC, Max. 4.8 W		12 V DC, Max. 3.2 W	12 V DC, Max. 3.5 W
	Protection Level	IP67			
	Dimensions	352.5 mm × 170.5 mm × 138 mm			
High-temperature Resistance	Cooling Liquid	(Application example with incoming water at 20 °C temperature): Ambient Temperature 80 °C, Flow Rate above 0.65 L/min ; Ambient Temperature 100 °C, Flow Rate above 1.22 L/min ; Ambient Temperature 150 °C, Flow Rate above 1.76 L/min ; Ambient Temperature 200 °C, Flow Rate above 3.3 L/min ;			
	Cooling Air	(Application example with incoming air at 20 °C temperature and with pressure 7 bar): Ambient Temperature 70 °C, Flow Rate above 15.34 m ³ /h ; Ambient Temperature 85 °C, Flow Rate above 32.54 m ³ /h ; Ambient Temperature 100 °C, Flow Rate above 37.82 m ³ /h ; Ambient Temperature 120 °C, Flow Rate above 53.97 m ³ /h ;			

Bi-spectrum Cube Camera

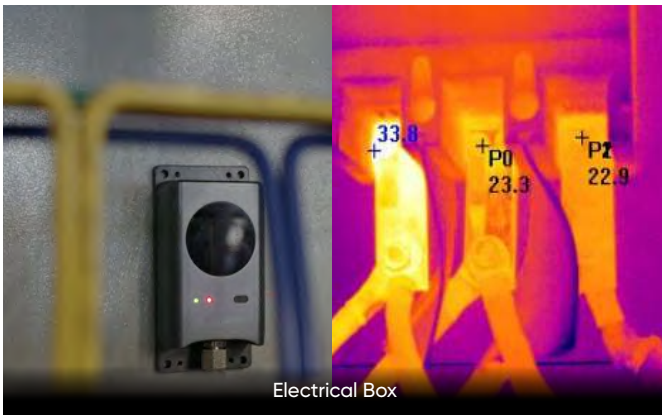
- Thermal camera with 256 × 192 pixel and visible camera with 2688 × 1520 pixels
- Spot, regions, and line measurements
- Magnet adapter for easy installation
- Alarm input and output



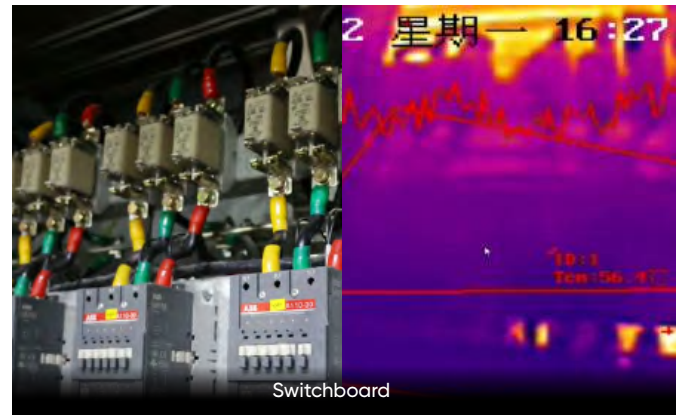
Basic model		HM-TD3028T-2/Q	HM-TD3028T-3/Q
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	
	Resolution	256 × 192	
	Spectral Range	8 μm to 14 μm	
	NETD	<40 mK (@25 °C, F# = 1.1)	
	Focal Length	2.1 mm	3.6 mm
	Focus Mode	Focus Free	
	IFOV	5.71 mrad	3.33 mrad
	Field of View	90° × 64.2° (H × V)	50° × 37.2° (H × V)
	Min. Focusing Distance	0.1 m	0.3 m
Visual Camera	Resolution	2688 × 1520	
Measurement and Analysis	Object Temperature Range	-20 °C to 150 °C, 0 °C to 550 °C	
	Temperature Accuracy	Max (± 2 °C, ± 2%)	
	Measurement Tools	Display Max. and Min. temperature in live view; 3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).	
Interface	Communication Interface	1, RJ45 Ethernet port, 10M/100M/1000M 1, RS-485 interface	
General	Power Supply	12 VDC, Max. 5 W	
	Protection Level	IP67	
	Dimensions	56 mm × 38.9 mm × 111.2 mm	

Cube Camera

- High sensitivity sensor with 160x 120 pixels
- Spot, line and box measurements
- Wide field of view up to 114°
- Small size and compact design
Magnet adapter for easy installation



Electrical Box



Switchboard

Basic model		HM-TD3118T-1/Q
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Resolution	160 × 120 (the resolution of output image is 320 × 240)
	Spectral Range	8 μm to 14 μm
	NETD	<40 mK (@25 °C, F# = 1.1)
	Focal Length	1.0 mm
	Focus Mode	Focus Free
	IFOV	13.08 mrad
	Field of View	110° × 81.3° (H × V)
	Image Frequency	25 Hz
	Min. Focusing Distance	0.1 m
Measurement and Analysis	Object Temperature Range	-20 °C to 150 °C, 0 °C to 550 °C
	Temperature Accuracy	Max (± 2 °C, ± 2%)
Interface	Communication Interface	1, RJ45 10 M/100 M self-adaptive Ethernet interface 1, RS-485 interface (Modbus available)
General	Power Supply	9 -15 VDC, 1.6W Continuous / 2W MAX
	Protection Level	IP67 Standard TVS 6000 V lightning protection, surge protection, voltage transient protection
	Dimensions	102 mm × 51.2 mm × 27.5 mm

Bi-spectrum Bullet Camera



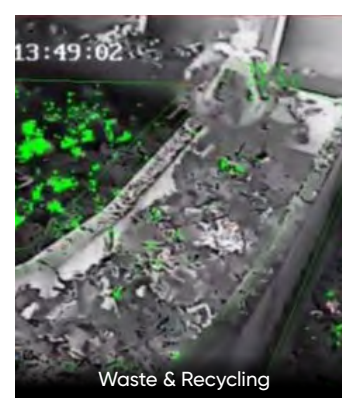
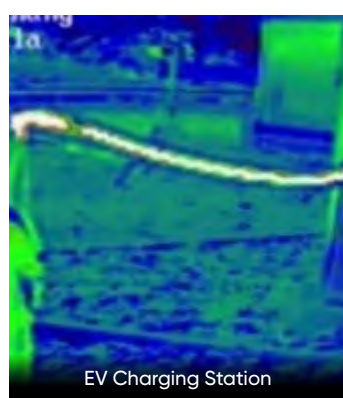
- Thermal camera with 640x512 pixels and visible camera with 2688x1520 pixels
- Temperature measurement range from -20 °C to 650 °C
- IP67-rated for protection against water and dust ingress
- Multiple protocols for easy integration



Basic model		DS-2TD2628T -3/QA	DS-2TD2628T -7/QA	HM-TD2638T -4/G0/T1Y	HM-TD2638T -4/G0/T1Y	HMTD2638T -10/G0/T1Y	HMTD2668T -10/G0/T1Y
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays					
	Resolution	256 × 192		384 × 288			640 × 512
	Spectral Range	8 μm to 14 μm					
	NETD	≤ 40 mK (@25° C,F# = 1.0)		≤ 20 mK (@25° C,F# = 1.0)			
	Focal Length	3.6 mm	6.9 mm	4.4 mm	7.6 mm	9.7 mm	10 mm
	IFOV	3.33 mrad	1.74 mrad	2.73 mrad	1.58 mrad	1.24 mrad	1.2 mrad
	Field of View	50.0° × 37.3° (H × V)	24.9° × 18.7° (H × V)	60.2° × 40.6° (H × V)	35° × 26.1° (H × V)	26.5° × 19.8° (H × V)	45.1° × 35.7° (H × V)
	Min. Focusing Distance	0.5 m	1 m	0.6 m	1 m	1.5 m	1.5 m
Visual Camera	Resolution	2688 × 1520,4MP					
Measurement and Analysis	Object Temperature Range	-20°C to 550°C		-20 °C to 650 °C			
	Temperature Accuracy	Max (± 2 °C, ± 2%)					
Network	API	ISAPI, SDK, ISUP, and third-party management platform, Open Network Video Interface, ONVIF (Profile S, Profile G, Profile T), OTAP S, Profile G)					
Interface	Alarm Input	2, alarm input (0-5 VDC)					
	Alarm Output	2, alarm output (alarm response actions configurable)					
	Analog Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC					
	Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface 1, RS-485 interface (half duplex)					
General	Power Supply	24 VAC ± 25%, 12 VDC ± 25%,24VDC two-core terminal block PoE (802.3af, class 3)					
	Protection Level	IP67 Standard TVS 4000V lightning protection, surge protection, voltage transient protection IK10-rated housing		IP67 Standard TVS 4000V lightning protection, surge protection, voltage transient protection IK10-rated housing NEMA 4X anti-corrosion housing			
	Dimensions	321.3 mm × 106.1 mm × 107.0 mm			376.1 mm × 119.1 mm × 118.1 mm		

Bi-spectrum Turret Camera

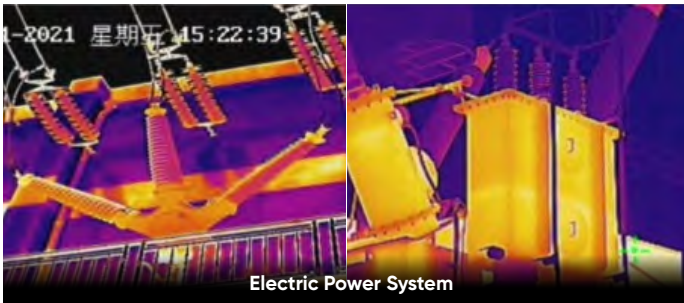
- Thermal camera with 256×192 pixels and visible camera with 2688×1520 pixels
- Temperature measurement range from -20°C to 550°C
- IP67-rated for protection against water and dust ingress
- Multiple protocols for easy integration



Basic model		DS-2TD1228T-2/QA	DS-2TD1228T-3/QA
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	
	Resolution	256 × 192	
	Spectral Range	8 μm to 14 μm	
	NETD	≤ 40 mK (@25° C, F# = 1.0)	
	Focal Length	2.1 mm	3.6 mm
	IFOV	5.71 mrad	3.33 mrad
	Field of View	90.0° × 65.4° (H × V)	50.0° × 37.3° (H × V)
	Min. Focusing Distance	0.1 m	0.5 m
Visual Camera	Resolution	2688 × 1520, 4MP	
Measurement and Analysis	Object Temperature Range	-20°C to 550°C	
	Temperature Accuracy	Max (± 2°C, ± 2%)	
Network	API	ISAPI, SDK, ISUP and third-party management platform, Open Network Video Interface, ONVIF (Profile S, Profile G)	
Interface	Alarm Output	2, alarm output (alarm response actions configurable)	
	Communication	1, RJ45 10 M/100 M Self-adaptive Ethernet interface 1, RS-485 interface (half duplex)	
General	Power Supply	12 VDC ± 25%, ϕ 5.5 mm coaxial power plug PoE (802.3af, class 3)	
	Protection Level	IP67 Standard TVS 4000V lightning protection, surge protection, voltage transient protection	
	Dimensions	138.3 mm × 138.3 mm × 123.1 mm	

Bi-spectrum PT Camera

- Thermal camera with up to 640 x 512 pixels
- Visible camera with 2688x1520 pixels and 40x optical zoom
- Pan 360° continuous and tilt -20° to + 90° (auto flip)
- Temperature measurement range from -20°C to 550°C
- Preset tour for different areas monitoring



Basic model		DS-2TD4137T-9/W	DS-2TD4137T-25/W	DS-2TD4167T-9/W	DS-2TD4167T-25/W
Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays			
	Resolution	384 × 288		640 × 512	
	Spectral Range	8 μm to 14 μm			
	NETD	≤ 35 mK (@25° C,F# = 1.0)			
	Focal Length	9 mm	25 mm	9 mm	25 mm
	IFOV	1.89 mrad	0.68 mrad	1.89 mrad	0.68 mrad
	Field of View	37.9 ° x28.7 °(H × V)	14.9° × 11.2°(H × V)	72.0 ° x56.1 °(H × V)	24.5 ° × 19.7 ° (H × V)
	Min. Focusing Distance	1 m	1.5 m	1 m	1.5 m
Visual Camera	Resolution	2688 × 1520, 4MP			
PTZ	Movement Range	Pan: 360° Continuous Rotate; Tilt: From -20° to + 90° (auto flip)			
	Pan Speed	Configurable, From 0.1°/s to 200°/s, Preset Speed: 240°/s			
	Tilt Speed	Configurable, From 0.1°/s to 105°/s, Preset Speed: 200°/s			
Measurement and Analysis	Object Temperature Range	-20°C to 550°C			
	Temperature Accuracy	Max (± 2°C, ± 2%)			
Network	API	ISAPI, SDK, third-party management platform, ONVIF profile (S,T,G)			
Interface	Alarm Input	7-ch inputs (0-5 VDC)			
	Alarm Output	2-ch relay outputs, alarm response actions configurable			
	Analog Output	1.0 V [p-p]/75 Ω			
	Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface 1, RS-485 interface			
General	Power Supply	24V AC ± 20%, 36V DC ± 20%, 48V DC ± 20%, Hi-PoE			
	Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient			
	Dimensions	266.6 mm × 410 mm × 198.6 mm			

PD1 Series Pyrometer

- Wide temperature measurement range: 500°C - 3200°C
- High temperature measurement accuracy up to $\pm(0.3\%+1)^{\circ}\text{C}$
- Multiple aiming methods: video, forward LED light source, eyepiece
- 5MPx high-definition video, no color difference, more detailed restoration



Basic model	PD110	PD110	PD110	PD110
Image Sensor	0.8μm & 1.08μm (Two Color)			
Temperature Range	1000 °C~3200 °C		500 °C~1800 °C	
Accuracy	±(0.3%*Tmea+1)°C, Tmea means "Current measured temperature"			
Resolution	0.1°C			
Repeatability	±(0.1%*Tmea+1)°C, Tmea means "Current measured temperature"			
Optical Resolution (D:S)	300:1		100:1	
Spot Size	1mm	2mm	3mm	6mm
Response Time	1ms			
Slope	0.850~1.150			
Emissivity	0.100~1.100			
Sighting	Laser, visual display, eyepiece			
Focus Range	0.3m~0.6m	0.6m~INF	0.3m~0.6m	0.6m~INF
Field of View (FOV)	11° x 8°			
Optical Resolution	2688*1944			
Display	2.4" OLCD screen, resolution 600*448			

PS2 & PD2 Series Compact Pyrometer

- Wide temperature measurement range: 150°C - 3200°C
- High temperature measurement accuracy up to $\pm(0.3\%+1)^{\circ}\text{C}$
- Compact in size, easy to install in narrow space environments
- 2MPx high-definition video without overexposure powered by smart image processing technology



Blast Furnace Taphole



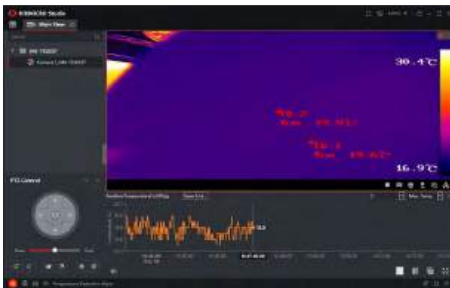
Hot Rolling

Basic model	PS210	PS220	PS230	PD210	PD220	PD230
Temperature Range	500°C~1800°C	150°C~1600°C	700°C~3200°C	600°C~1800°C	300°C~1600°C	700°C~3200°C
Absolute Accuracy	600-1800°C: ± (0.3%*Tmea+2) °C, 500-600°C: ± (2%*Tmea+2) °C	250-1600°C: ± (0.3%*Tmea+2) °C, 150-250°C: ± (1%*Tmea+2)°C	± (0.3%*Tmea+2) °C	± (0.5%*Tmea+2) °C	400-1600°C: ± (0.5%*Tmea+2) °C, 300-400°C: ± (2%*Tmea+2) °C	± (0.5%*Tmea+2) °C
Spectral Response	0.8μm ~ 1.08μm (Single Color)	1.45μm ~ 2.2μm (Single Color)	0.8μm ~ 2.2μm (Single Color)	0.8μm ~ 1.08μm (Two-Color)	1.3μm ~ 1.7μm (Two-Color)	0.8μm ~ 1.08μm (Two-Color)
Optical Resolution (D:S)	100:1 (90% energy)	100:1 (90% energy)	200:1 (90% energy)	100:1 (95% energy)	100:1 (90% energy)	200:1 (95% energy)
Spot Size	3mm	3mm	1.5mm	3mm	3mm	1.5mm
Measure Range	0.3m~INF					
Slope	NA			0.850 ~ 1.150		
Sighting	Visual display					
Optical Resolution	1728*1296 (Visual display)					
Signal Output	4-20mA, RS485, Modbus RTU, Modbus TCP, I/O					
Working Temp.	Without cooling: 0°C to +65°C - With air & water cooling accessories: 0°C to +300°C					
Power	DC 10~30V, Max. 5W					
Ingress Protection	IP66					

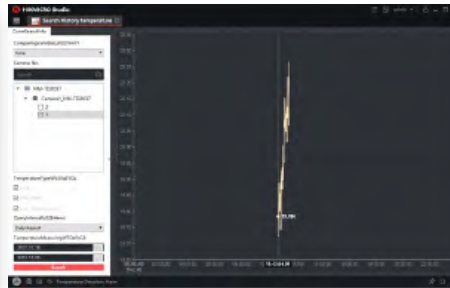
HIKMICRO STUDIO



A professional software client designed to manage the fixed thermal cameras.



Real-time and Constant Temperature Measurement



Temperature Data Storage & Report



Alarm Notification and Remote Measurement Settings

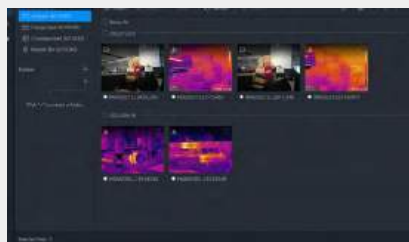
HIKMICRO ANALYZER



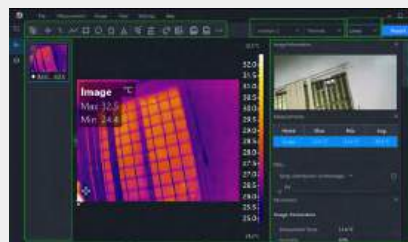
EFFICIENT, POWERFUL THERMAL ANALYSIS AND REPORTING

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 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



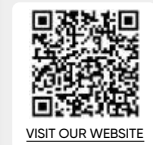
THERMAL IMAGE ON SITE



ANALYSIS ON COMPUTER



EXPORT REPORT



VISIT OUR WEBSITE