



Thermography Handheld Cameras



Demand



Product



Application

Demand Analysis

Why we need these?



In most cases, the object temperature is vital index. Temperature rising , reducing and changing often indicates the abnormal status, which could cause severe harms to objects.

Thermal cameras is an ideal solution for predictive maintenance, building inspection, HVAC inspection, process control etc. Because thermal cameras enable accurate non-touch temperature measurement and displaying heat distribution image.

Solution Proposed

Why we use handheld camera?



The thermography handheld camera is based on the thermal technology specially designed for the needs of temperature measuring applications. People can quickly troubleshoot faults on-site.



can more efficiently identify temperature anomalies with visualized image

Promotion Naming

Explanation



M

1

0

Product Series

E

B

M

G

Resolution

1: 160×120

2: 256×192

3: 384×288

6: 640×512

Generation

L: Single lens

0: First generation

E series- E1L



Key Features



Accessories

Overview

E1L



Rapid Booting

Stable temperature image shown
in 7 seconds from start-up

High Quality Image

Self-made detector

NETD < 40mk

Fast locate abnormal temperature area

High Cost-effectiveness

Performance is like thermography
camera but price is close to spot
thermometer

Key Features

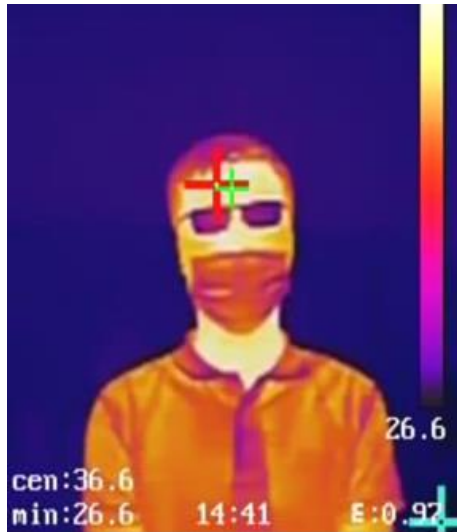
E1L



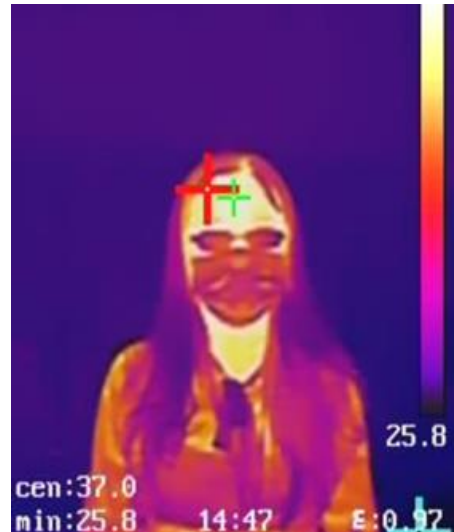
Selling Point: High Image Quality



Description: A high sensitivity detector (less than 40 mk NETD) gives a clear picture of the target.



NETD <40mK
160x120 pixels



NETD <150mK
160x120 pixels



Key Features

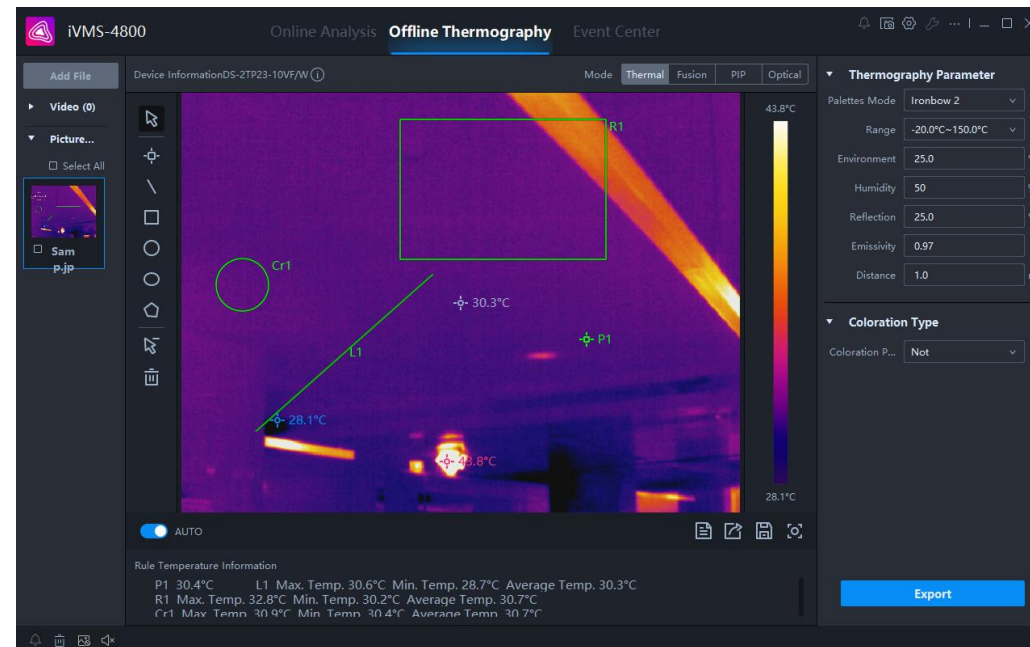
E1L



Selling Point: Temperature analysis software



Description: Full screen temperature measurement, support offline analysis through stored image, then export report.



Key Features

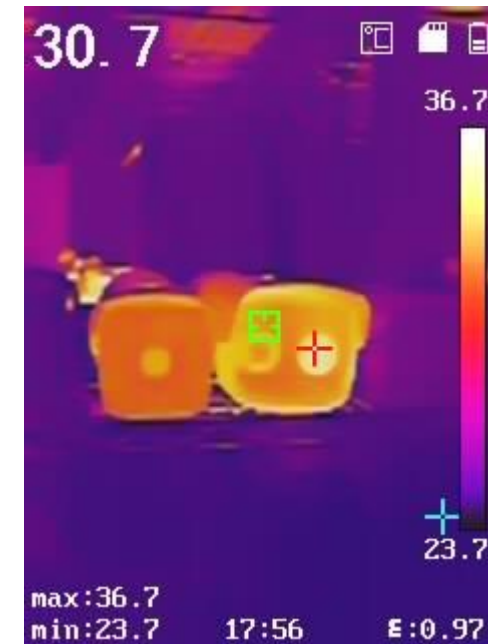
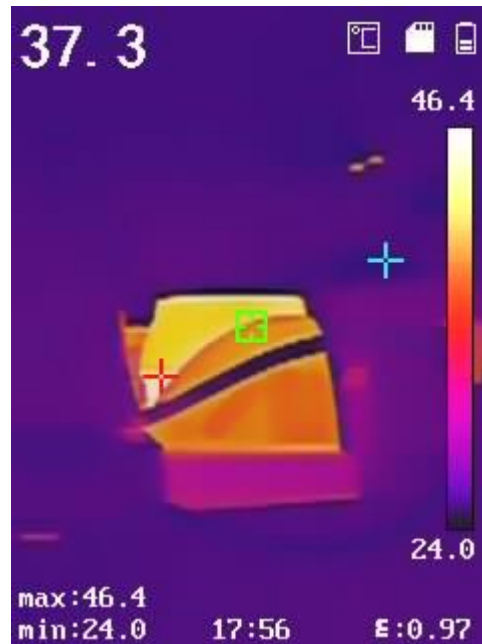
E1L



Selling Point: Thermography rule



Description: 3 thermography points: Max. Temperature; Min. Temperature; Center Temperature



Key Features

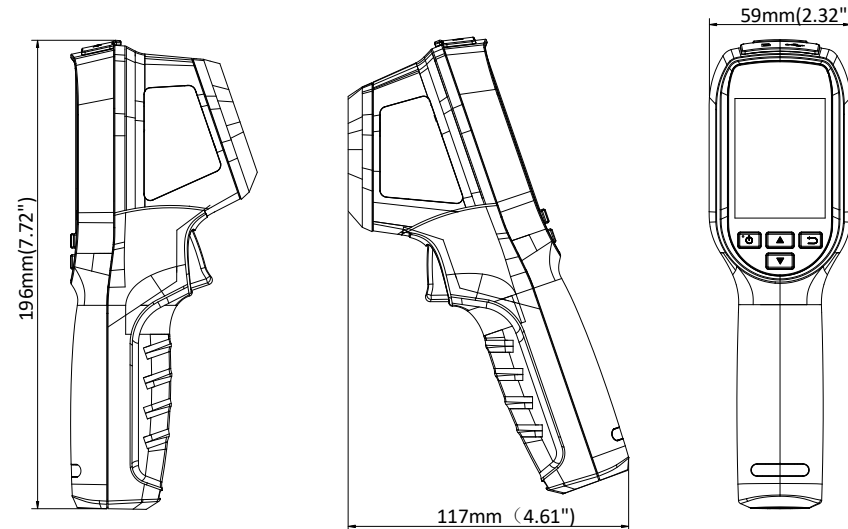
E1L



Selling Point: Light weight, easy to carry



Description: Dimension: 196 mm × 117 mm × 59 mm (7.7 " × 4.6 " × 2.3 ")
Weight: 350 g (0.77 lb)
Protection level: IP54
Drop Test Height: 2 m (6.56 feet)



Key Features

E1L



Selling Point: Multiple Language



Description: Support 17 languages.

- | | |
|--------------------|------------------------------|
| ✓ English | ✓ Polish |
| ✓ Russian | ✓ Portuguese |
| ✓ German | ✓ Romanian |
| ✓ Italian | ✓ Danish |
| ✓ French | ✓ Turkish |
| ✓ Spanish | ✓ Traditional Chinese |
| ✓ Korean | ✓ Japanese |
| ✓ Hungarian | ✓ Slovak |
| ✓ Czech | |

M series- M10; M30



Key Features



Accessories

Overview

M10; M30

Resolution Thermal:

160×120(M10)

384×288(M30)

Optical: Max 8MP

IFOV: 2.74 mrad(M10)

1.7 mrad(M30)

Wi-Fi connection

convenient to share the
picture and video



Display

3.5" Touch screen

Storage

16G SD card(M10)

64G SD card(M30)

Power supply

Up to 5 hours(M10)

Up to 4 hours(M30)

With Battery: 653 g(M10)

660 g(M30)

Without Battery: 511 g(M10)

518 g(M30)

Temperature Measurement

Range: -20°C~550°C

Accuracy: max($\pm 2^{\circ}\text{C}$ or $\pm 2\%$)

Dual Spectrum

The 3.5-inch touch screen displays picture
in picture of optical and thermal view,
fusion of both channel

Flexible Rules

Custom Point/Line/Area Thermography

Key Features

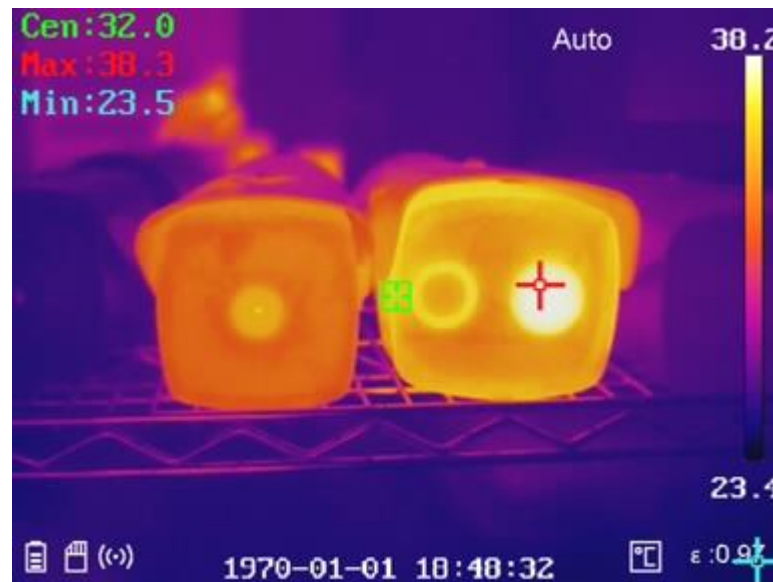
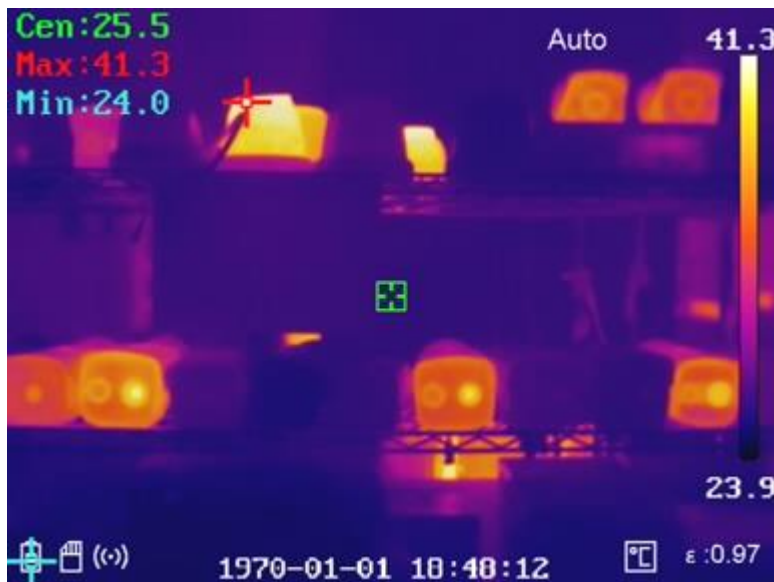
M10; M30



Selling Point: High Image Quality



Description: A high sensitivity detector (less than 40 mk NETD) gives a clear picture of the target.



**NETD <40mK
384x288 pixels**

Key Features

M10; M30

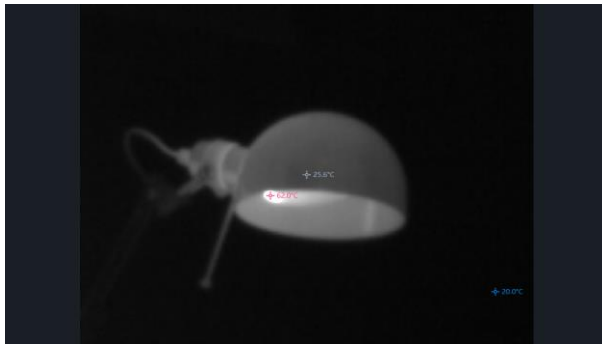


Selling Point: Multiple image mode



Description: 1. Thermal 2. Bi-spectrum Image Fusion (Fusion), 3. Picture in Picture (PIP) 4. Optical

Thermal



Fusion



PIP



Optical



Key Features

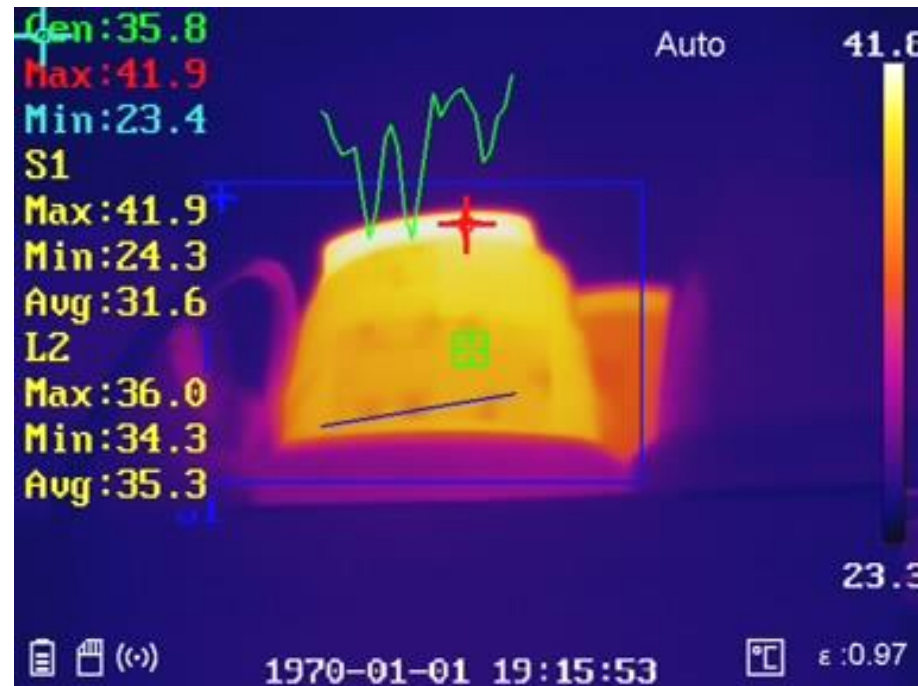
M10; M30



Selling Point: Thermography Rules



Description: Max. Temperature; Min. Temperature; Center Temperature; Custom 10 Points /1 Line/ 3 boxes.



Key Features

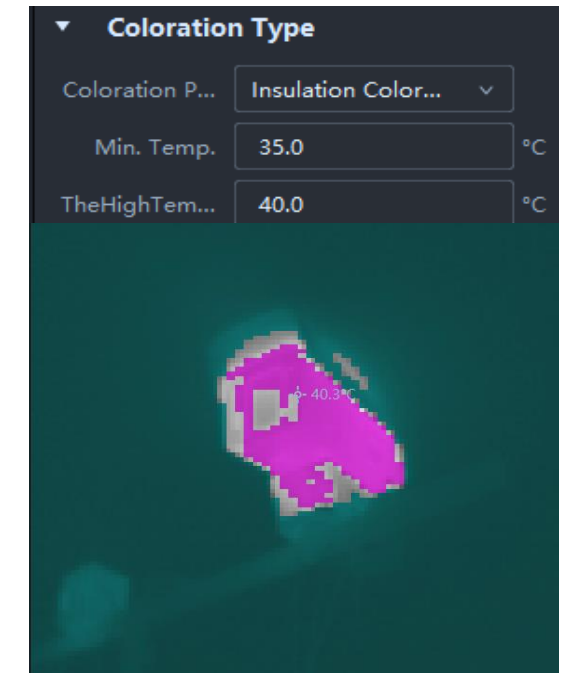
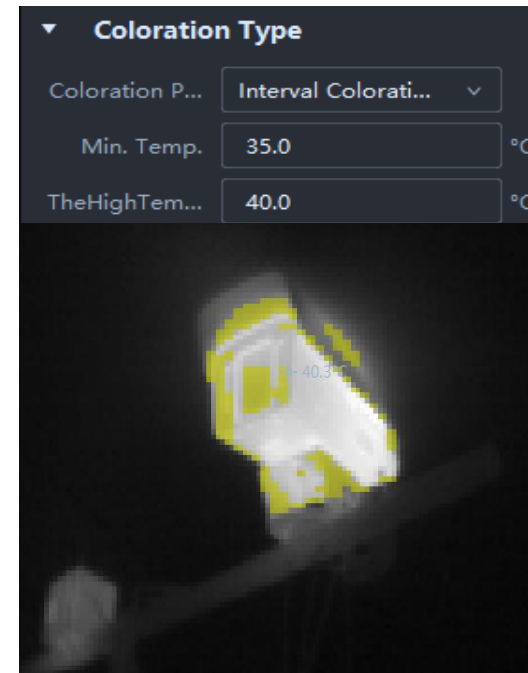
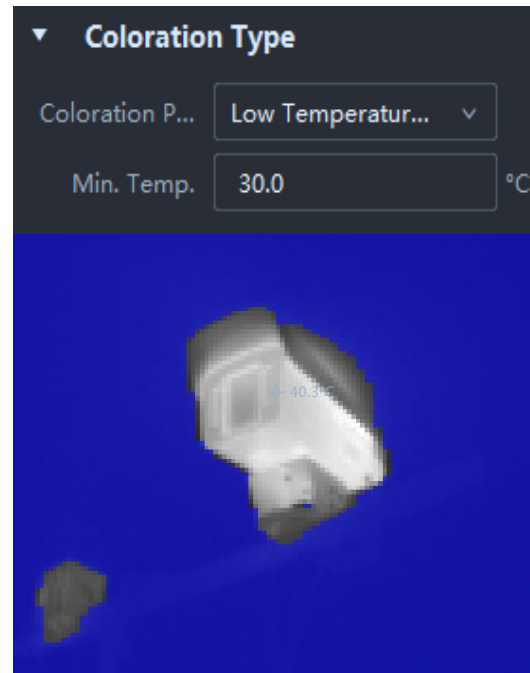
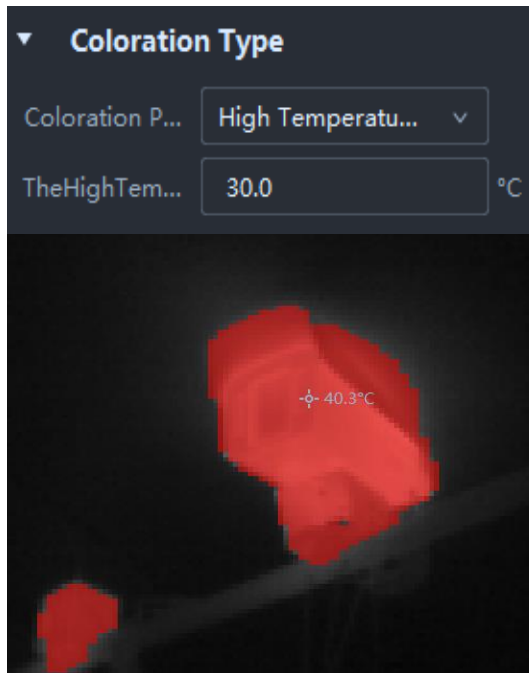
M10; M30



Selling Point: Isotherm (Color highlight)



Description: 4 modes. High, Low Interval, Insulation temperature Highlight.



Key Features

M10; M30



Selling Point: Support Wi-Fi



Description: Supports connect to smart phone app via Wi-Fi, the image will be transferred and displayed real time, so users can watch what camera shows on the phone, and also supports two-way voice intercom.

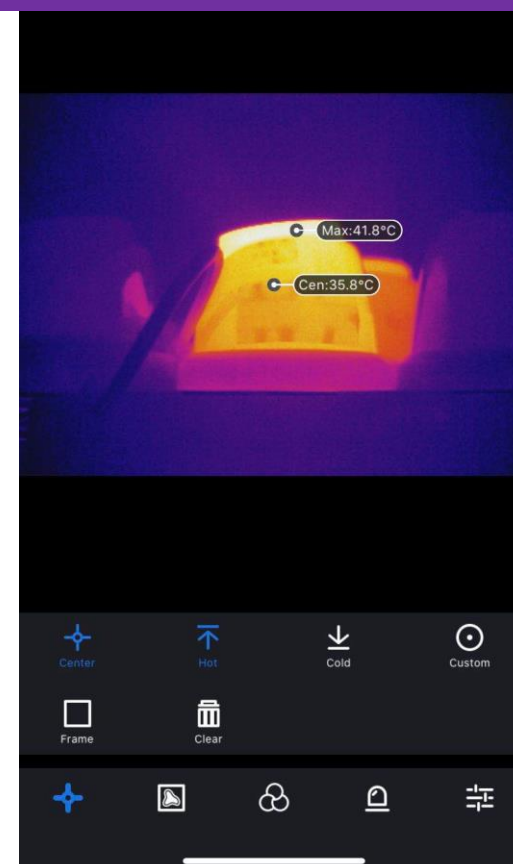
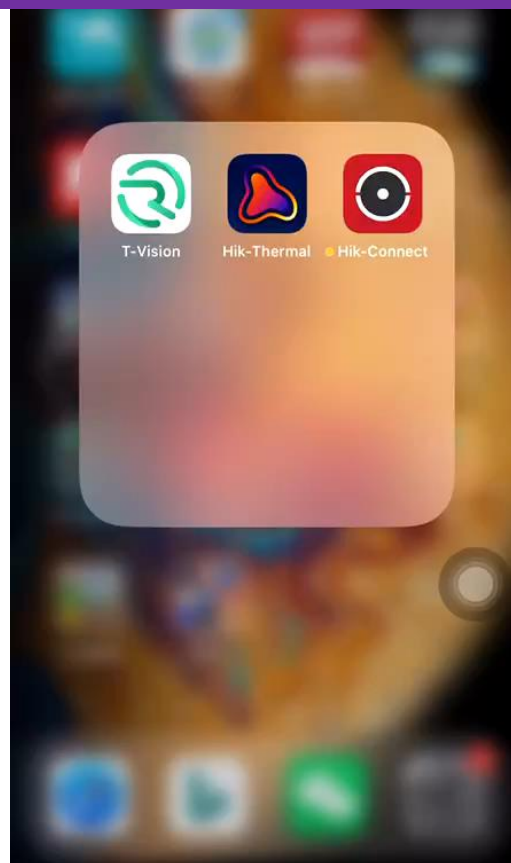
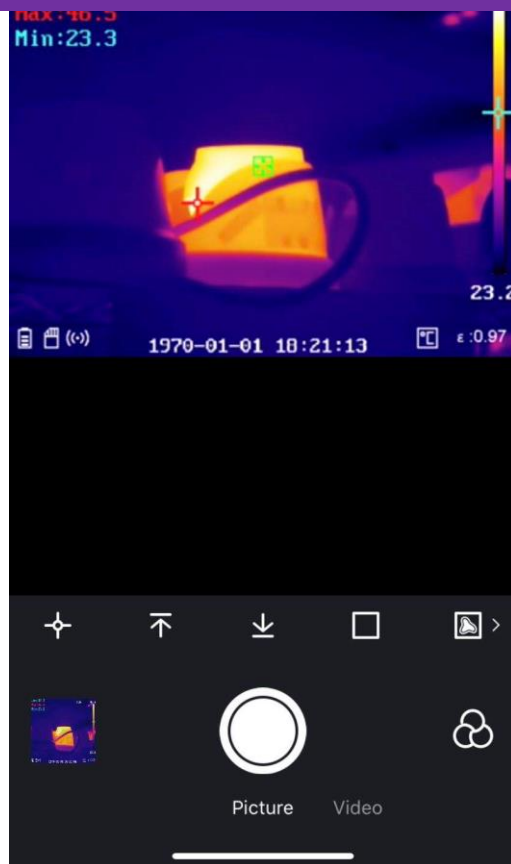
Phone App

Hik-thermal



Hik-Thermal app

Hik-thermal provides customized parameter selection. Once the image is stored in the app, users can still add, delete or change by the way they want, such as colors, temperature type, measurement rules, display channels, highlights types.



Key Features

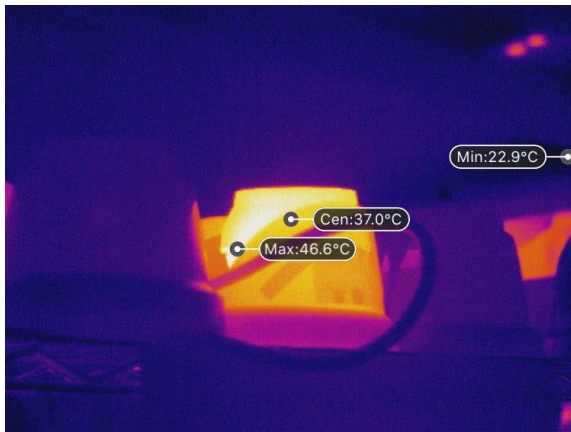
M10; M30



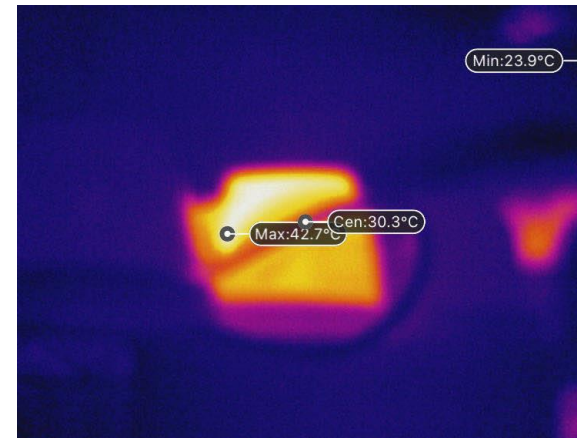
Selling Point: Manual Focus



Description: Manual focus device can be focused at both near and far, so that the picture is always clear with correct temperature



With manual focus:
Clear image and accurate temperature



Without manual focus:
Blurred images, inaccuracy temperature

Key Features

M10; M30



Selling Point: Multiple Language

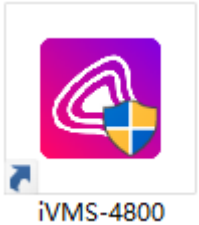


Description: Support 18 languages.

- | | |
|--------------------|------------------------------|
| ✓ English | ✓ Polish |
| ✓ Russian | ✓ Portuguese |
| ✓ German | ✓ Romanian |
| ✓ Italian | ✓ Danish |
| ✓ French | ✓ Turkish |
| ✓ Spanish | ✓ Traditional Chinese |
| ✓ Korean | ✓ Japanese |
| ✓ Hungarian | ✓ Slovak |
| ✓ Czech | ✓ Arabic |

General Software

Offline Thermography Analysis



iVMS-4800 is a software to do temperature measurement analysis with thermal cameras. It supports to analyze temperature by online or offline mode, and to export temperature measurement report. With temperature analyzing function, you are able to adjust image pallets, temperature parameters and so on.

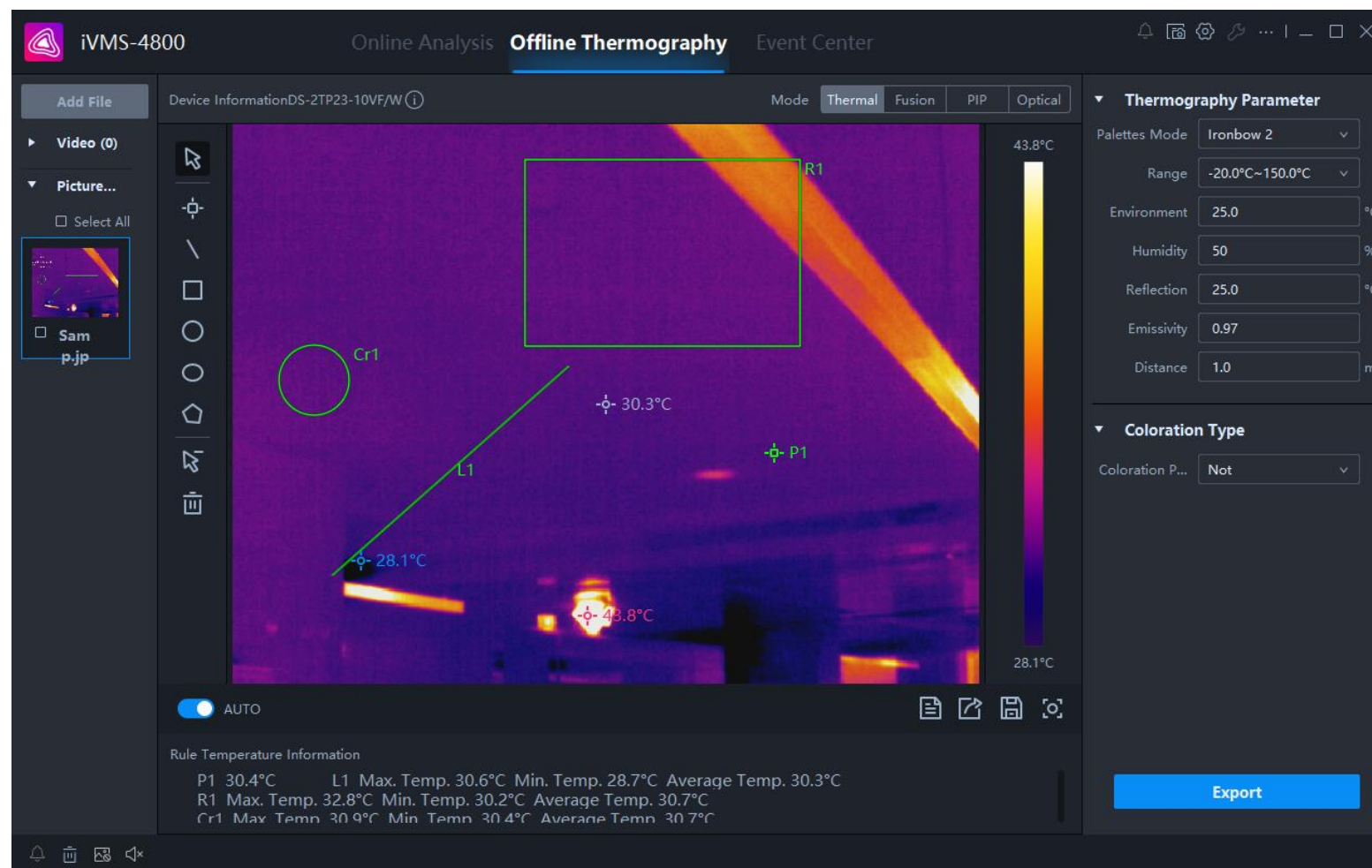


Offline mode

you could analyze the captured pictures and video. (Handheld thermography cameras)

Interface

Offline Thermography



Note: Support languages: English, French, German, Italian, Norwegian, Russian, Spanish, Chinese

Thermography products

1: 160x120 3: 384x288

2: 256x192 6: 640x512

L: Lite, single lens; 0: first generation



Thermography	2020.Q4			2021.Q1			2021.Q2			2021.Q3		
	10	11	12	1	2	3	4	5	6	7	8	9
Mini series	Mini 1			ES-.Nov.			Mini 2			ES-.May 2021		
	160x120, 17μm, 3mm, 42.5° (H) × 32.5 (V) Fixed focus			MP-Dec.			256x192, 12μm, 3mm, 50.0°(H) × 37.3°(V) Fixed focus			MP-Jun 2021		
	Order model: HM-TJ11-3AMF-Mini1											
Pocket series							Pocket 2			ES-.Q3 2021		
							256x192, 12μm, 3mm, 50.0°(H) × 37.3°(V) Fixed focus			MP-Q3 2021		
E series	E1L			ES-.Nov.								
	160x120, 17μm, 3mm, 42.5° (H) × 32.5 (V) Fixed focus, 2.4" screen			MP-Dec.								
	Order model: HM-TP31-3AUF-E1L											

● **MP : Release time** **ES : Sample time**

Thermography products

1: 160x120 3: 384x288
 2: 256x192 6: 640x512
 L: Lite, single lens; 0: first generation



Thermography	2020.Q4			2021.Q1			2021.Q2			2021.Q3		
	10	11	12	1	2	3	4	5	6	7	8	9
B series	 <p>B1L</p> <p>ES-.Nov. MP-Dec.</p> <p>160x120, 17μm, 3mm, 42.5° (H) × 32.5 (V) Fixed focus, 3.2" screen</p> <p>Order model: HM-TP51-3AXF/W-B1L</p>						<p>B10</p> <p>ES-.Jun 2021 MP-Jul 2021</p> <p>160x120, 17μm, 3mm, 42.5° (H) × 32.5 (V), Fixed focus, 3.2" screen, 2MP optical</p>					
	 <p>B2L</p> <p>ES-.Mar.2021 MP-Apr.2021</p> <p>256x192, 12μm, 3mm, 50.0°(H) × 37.3°(V) Fixed focus, 3.2" screen</p> <p>Order model: HM-TP52-3AXF/W-B2L</p>						<p>B20</p> <p>ES-.Jun 2021 MP-Jul 2021</p> <p>256x192, 12μm, 3mm, 50.0°(H) × 37.3°(V) Fixed focus, 3.2" screen, 2MP optical</p>					

● **MP : Release time** **ES : Sample time**

Thermography products

1: 160x120 3: 384x288
2: 256x192 6: 640x512



L: Lite, single lens generation; 0: first generation

Thermography	2020.Q4			2021.Q1			2021.Q2			2021.Q3		
	10	11	12	1	2	3	4	5	6	7	8	9
M series	M10			ES-Nov.								
	160x120, 17μm, 6mm, 25° × 18.7° Manual focus, 3.5” screen 8MP optical			MP-Dec.						Order model: HM-TP21-6VF/W-M10		
				M20			ES-.Apr 2021			MP-May 2021		
				256x192, 12μm, 7mm, 25° × 18.7° Manual focus, 3.5” screen 8MP optical								
	M30			ES-Nov.								
	384x288, 17μm, 10mm, 37.5° × 28.5 ° Manual focus, 3.5” screen 8MP optical			MP-Dec.						Order model: HM-TP23-10VF/W-M30		

● **MP : Release time** **ES : Sample time**

Thermography products

1: 160x120 3: 384x288
 2: 256x192 6: 640x512
 L: Lite, single lens; 0: first generation



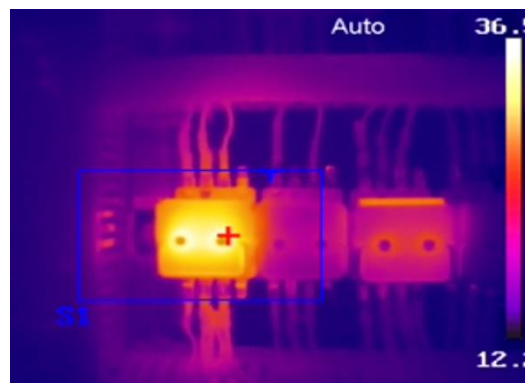
Thermography	2020.Q4 10 11 12			2021.Q1 1 2 3			2021.Q2 4 5 6			2021.Q3 7 8 9		
G series	G60 ES-.Nov. MP-Dec. 640x512, 17μm, 25mm, 25°× 19° Auto focus, 4.3" screen, -20°C-650°C, max (±2°C, ±2%) 8MP optical									Order model: HM-TP76-25SVF/W-G60		
Future plan							G30 (2021.Q2)					

Application Scenarios

Predictive Maintenance



Applications	Scenarios/Use Cases	Users	Products Recommended
Predictive Maintenance	Mechanical	Mechanical engineer	E Series, B Series
	Electrical low voltage	Electrical engineer	E Series, B Series
	Process control	Automation engineer	B Series, M Series
	High voltage	Power plant, Railway,	G Series

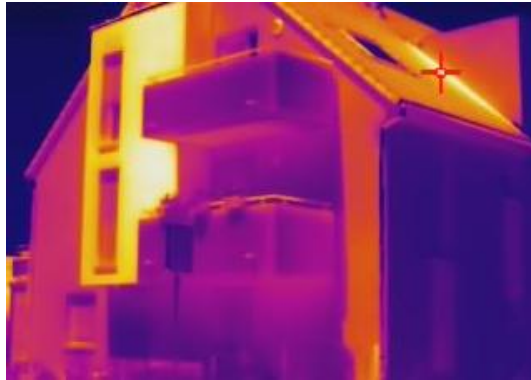


Application Scenarios

Building Inspection



Applications	Scenarios/Use Cases	Users	Products Recommended
Building Inspection	Heat loss on building	Contractor's	M Series
	Water ingress into flat roofs	Contractor's	E Series, B Series
	Reisidential electrician	Contractor's	E Series, B Series
	Solar panel	Contractor's	G Series

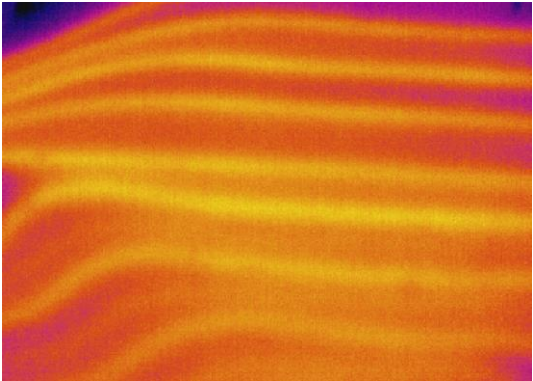
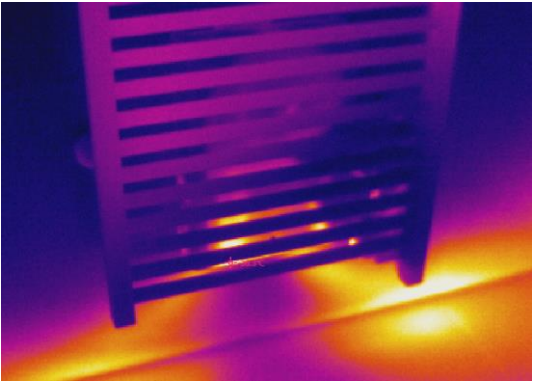
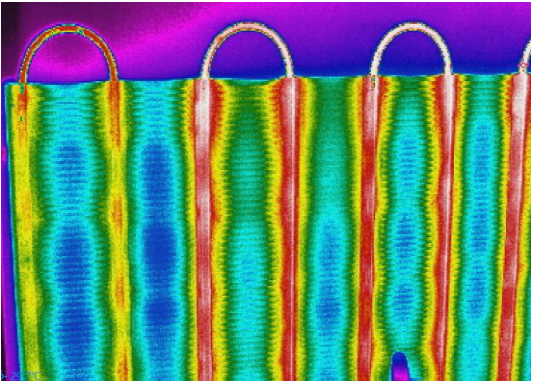


Application Scenarios

HVAC Inspection



Applications	Scenarios/Use Cases	Users	Products Recommended
HVAC Inspection	Heating	Heating engineer;	E Series, B Series
	Ventilation	Heating engineer	E Series, B Series
	Air conditioning effectiveness	Detect leaks	M Series
	Refrigeration	Detect leaks	M Series

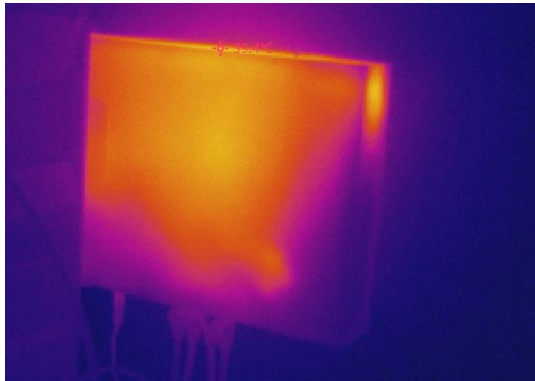
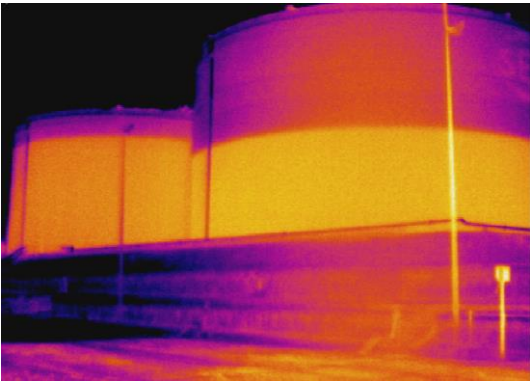


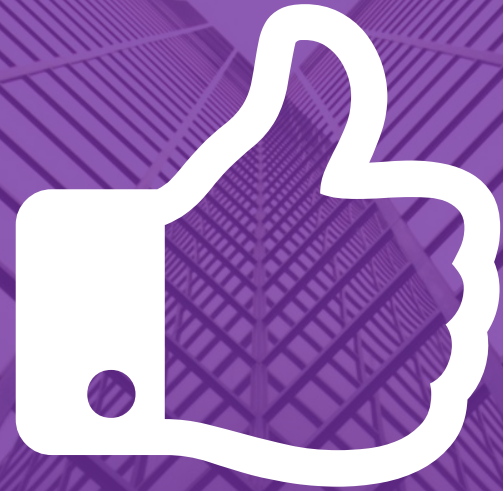
Application Scenarios

Process Control



Applications	Scenarios/Use Cases	Users	Products
Process Control	Insulation Integrity, furnaces and torpedo cars	Steel & Glass Plants & service providers	G Series
	Heated rollers	Paper Mills & service providers	G Series
	Welding Inspection	Car manufacturing plants	G Series





THANK YOU
