

Capture the Invisible at a Glance

Hikvision Thermography Cameras



ABOUT HIKVISION

Industry Pioneer

Since 2001, Hikvision has grown from being a single-product supplier to the world's leading provider of security products and solutions. From the early digital age to today's intelligence era, we have seized every opportunity to advance the industry with our innovative technologies. And venturing into new areas of inspiring technology – such as Artificial Intelligence, cloud computing, and the fusion of deep learning and multi-dimensional perception technologies, to name a few – Hikvision leads the security industry as an IoT provider with video as the core competency.

Global Operations

Hikvision has established one of the most extensive marketing networks in the industry, comprising 44 international subsidiaries and branch offices to ensure quick responses to the needs of customers, users and partners.

Core Technologies

















Visual Perception

Cloud Storage

Big Data

Video Codec

Audio and Video Data Storage Cross-Media Perception and Reasoning

Streaming Media Networking and Management

Embedded Systems Development

Thermal Product Development Timeline



HIKVISION Thermography Cameras

Hikvision's thermography cameras have been used widely in detecting temperature anomalies before a fire starts, finding hot spots and invisible defects on machinery or electrical systems that could indicate a potential problem. They are also used for surveying areas that are hard to reach with conventional measurement tools.

Accurate Temperature Measurement

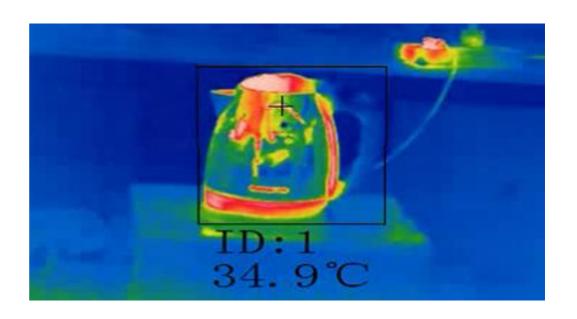
Clear Imaging

IntuitiveUser Interface

AccurateTemperature Measurement

Through strict calibration and standardized testing procedures, Hikvision has established a temperature measurement model that offers great stability and high accuracy – up to $\pm 2^{\circ}$ C or $\pm 2^{\circ}$ (whichever is greater).

In addition, Hikvision thermal products support multiple temperature measurementrules including point, line, and frame measurements. Users can select rules for various scenarios to reach maximum accuracy.







Clear Imaging

With advanced features such as automatic gain control, digital detail enhancement, and 3D digital noise reduction, Hikvision thermal cameras offer crystal clear thermal imaging unparalleled in the industry.

Auto Gain Control (AGC)

Based on AGC 2.0 technology, AGC 4.0 improves details in images with low temperature differences, highlighting brightness differences with high temperature objects.

Digital Detail Enhancement (DDE)

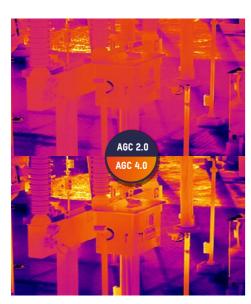
DDE is an advanced technology based on enhanced algorithms. This feature renders details more sharply in low contrast in any given region of interest.

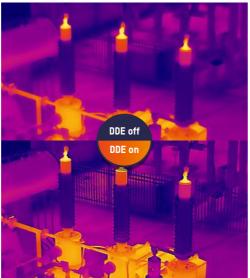
3D Digital Noise Reduction (3D DNR)

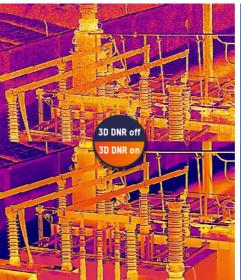
3D DNR effectively removes the grainy or fuzzy quality in images under low light, rendering much clearer and finer images compared with 2D DNR.

Bi-Spectrum Image Fusion

Hikvision's signature thermal technology – bispectrum image fusion – combines features from both thermal and optical images, and creates a unique hybrid that provides extra details for more precise detection and decision-making.









Advantages

Intuitive User Interface

Temperature Measurement software: iVMS-4800 Hik-Thermal APP

Powerful and professional software for temperature analysis online and offline. It allows users to set up measurement rules, displays results visually, and provides test reports.







Electrical

Building

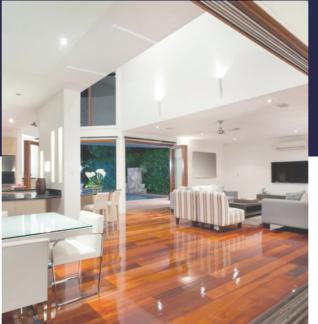
Manufacturing

Temperature anomalies in electrical switches, contacts, and transformers due to oxidation, corrosion, or loosening can be detected before a hazard.

Invisible design defects, leaking pipes, and other related issues can be intelligently revealed with a thermography camera.

Use a handheld thermography camera to check heat distribution in a circuit and optimize the arrangement of electronic components.



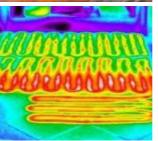




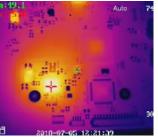












Handheld Thermography Cameras



	Image Sensor	Uncooled Focal Plane Arrays, V0x
	Max. Resolution	160 x 120
	Pixel Pitch	17 μm
	NETD	< 40 mK (@ 25 °C, F#=1.0)
Thermal Module	Field of View	37.2° × 50 °
mermat Modute	Focal Length	3.1 mm
	IFOV	5.48 mrad
	Min. Focal Length	≥ 150 mm
	Aperture	F1.1
Image Display	Monitor	320 x 240 resolution 2.4" LCD display
illiage bisplay	Palettes	Black hot, White hot, Rainbow, Ironbow
	Rules	3 Thermography points: max. temperature; min. temperature; center
Thermography		temperature
Theiliography	Range	-20 °C to 550 °C (-4 °F to 1022 °F)
	Accuracy	Max (±2 °C, ±2%)
Battery	Battery Type	Rechargeable lithium battery
	Operating Time	Max 8h
Functions	Laser	For pointing to the target
Functions	Photo	Supported
	Hardware Interface	micro USB
	Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)
General	Protection level	IP54
General	Dimension	196 mm x 117 mm x 59 mm (7.7" x 4.6" x 2.3")
	Majaht	350 g (0.77 lb)
	Weight	330 g (0.77 tb)

DS-2TP31-3AUF





160 × 120 @ 25 Hz Max. Resolution Pixel Pitch 17 μm NETD < 40 mK (@ 25 °C, F#=1.0) Thermal Module Field of View 25° × 18.7° 6.2 mm (manual focus) Focal Length IFOV 2.74 mrad Aperture F 1.1 Optical Module Max. Resolution Max 8MP 640 x 480 resolution 3.5" LCD touch display Monitor Black hot, White hot, Red hot, Rainbow, Ironbow, Fusion, Rain Palettes Thermal: 1×, 2×, 4× Image Display Digital Zoom Thermal / Optical Thermal / Optical / Image Fusion / Picture in picture Video Recording Supports on-board video recording Max. temperature; min. temperature; center temperature Rules Custom point, line and frame Thermography Thermography -20 °C to 550 °C (-4 °F to 1022 °F) Range Max (±2 °C, ±2%) Accuracy Replaceable and rechargeable lithium battery Battery Type Battery 4 hours continuous running Operating Time For pointing to the target Laser Photo Supported **Functions** Supported Lighting Supported Wi-Fi -10 °C to 50 °C (-4 °F to 122 °F) Operating Temperature Protection level General 244 mm x 100 mm x 104 mm (9.6" x 3.9" x 4.1" Dimension 660 q (1.46 lb) Weight Power adapter/USB cable/16G Memory card /User manual/wrist strap/Pouch Accessories

Uncooled Focal Plane Arrays, VOx

Image Sensor

DS-2TP21-6AVF/W

Product Showcase



DS-2TP23-10VF/W

	Image Sensor	Uncooled Focal Plane Arrays, VOx
	Max. Resolution	384 x 288 @ 25 Hz
	Pixel Pitch	17 μm
The second Medical	NETD	< 40 mK (@ 25 °C, F#=1.0)
Thermal Module	Field of View	37.5° × 28.5 °
	Focal Length	10 mm (manual focus)
	IFOV	1.7 mrad
	Aperture	F 1.0
Optical Module	Max. Resolution	1920 x 1080
	Monitor	640 x 480 resolution 3.5" LCD touch display
	Palettes	Black hot, White hot, Red hot, Rainbow, Ironbow, Fusion, Rain
Image Display	Digital Zoom	Thermal: 1×, 2×, 4×
	Thermal / Optical	Thermal / Optical / Image Fusion / Picture in picture
	Video Recording	Supports on-board video recording
	Rules	Max. temperature; min. temperature; center temperature Custom point, line and frame Thermography
Thermography	D	-20 °C to 550 °C (-4 °F to 1022 °F)
	Range	Max (±2 °C, ±2%)
	Accuracy	
Battery	Battery Type	Replaceable and rechargeable lithium battery Max 4h
	Operating Time	
	Laser	Pinpoints targets for accuracy
Functions	Photo	Supported
	Lighting	Supported
	Wi-Fi	Supported
	Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)
Comeral	Protection level	IP54
General	Dimension	244 mm x 100 mm x 104 mm (9.6" x 3.9" x 4.1")
	Weight	660 g (1.46 lb)
	Accessories	Charger/power adapter/USB cable/64G memory card/User manual/ wrist strap/ box



Online Thermography Cameras

Thermographic Cube Camera



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	Max. Resolution	160 × 120 @ 25 Hz
	Pixel Pitch	17 μm
Thermal Module	NETD	< 40 mK (@ 25 °C, F#=1.0)
mermat Modute	Focal Length	2/3mm
	IFOV	2.74 mrad
	Aperture	F 1.1
	Field of View	90° × 66.4° / 50° × 37.2°
	Min. Focusing Distance	0.1 or 0.15 m
	Max. Resolution	1600 × 1200
Optical Module	Focal Length	2 mm
	Field of View	92.6° × 75.8°
	Temperature Range	-20 °C to 350 °C (-4 °F to 662 °F)
Smart Feature	Temperature Accuracy	Max (±2 °C, ±2%)
	Temperature Measurement Type	10 Custom Points / 1 Line / 10 Area
	Communication Interface	1 RJ45 Ethernet port, 1 RS-485 interface
Interface	Alarm	1 input, 1 output
	Metadata Output	Max. 25 fps (16bit 160 × 120)
	Power Supply	10-30 VDC, Max. 4 W PoE (802.3af, class 2)
	Operating Temperature and Humidity	-20 °C to 50 °C (-4 °F to 122 °F), humidity less than 95%
General	Protection Level	IP67
	Dimensions	56 mm × 38.8 mm × 110 mm (2.20" × 1.53" × 4.33")
	Weight	335 g (0.74 lb)

Image Sensor

Uncooled Focal Plane Arrays, V0x

DS-2TA21 Series

Product Showcase

Thermographic Automation Thermal Camera



	Image Sensor	Uncooled Focal Plane Arrays, VOx
	Pixel Pitch	17 μm
Thermal Module	Focal Length	7/15 mm, 384 × 288; 25mm, 640 × 512
memial rioudle	NETD	< 40 mK (@25 °C, F#=1.0)
	Focus Mode	Auto, Manual, Semi-auto Supports Regional Focus
	Temperature Range	-20 °C to 150 °C (-4 °F to 302 °F) 0 °C to 550 °C (32 °F to 1022 °F)
Smart Features	Temperature Accuracy	±2 °C (±3.6 °F) or ±2% (max)
	Temperature measurement Type	Display max. and min. temperatures in live view
	Power Consumption and Current	12 VDC, 0.5 A, max. 6 W
	Operating Temperature and Humidity	-20 °C to 50 °C (-4 °F to 122 °F), humidity less than 95%
General	Protection Level	IP40
	Dimensions	Camera: 60 mm × 60 mm × 120 mm (2.4" × 2.4" × 4.7") With package: 251 mm × 215 mm × 189 mm (9.9" × 8.5" × 7.4")
	Weight	With lens: 600 g (1.32 lb) Without lens: 350 g (0.77 lb)
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DS-2TA03 Series DS-2TA06 Series





Bi-Spectrum Network Speed Dome



DS-2TD4136T Series
DS-2TD4166T Series

	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Detector Pitch	17 μm
The sum of Medule	Focal Length	9/25/50 mm, 384 × 288; 9/25/50 mm, 640 × 512
Thermal Module	FOV	41°/15°/7.5°; 72°/ 25°/12.5°IP67
	Aperture	F1.0
	NETD	< 40 mK (@25°C, F#=1.0)
	Min. Illumination	Color: 0.002 lux @ (F1.5, AGC on) B/W : 0.0002 lux @ (F1.5, AGC on)
Ontical Camera	Temperature Measurement	Support 3 temperature measurement rule types, over 256 presets as scene, 21 rules of each scene (10 points, 10 frames, and 1 line
Optical Camera	Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)
	Temperature Accuracy	Max (±2 °C, ±2%)
	Fire Detection	Supports 10 fire detection points
	Movement Range	Pan: 360° (continuous rotate); Tilt: From -15° to + 90° (auto flip)
PTZ	Patrol Scan	8; Up to 32 presets per patrol
	Pattern Scan	4; More than 10 minutes per pattern
Infrared	IR Distance	Up to 200 m
Integration	RS485	Half-Duplex; HIKVISION, PELCO-P and PELCO-D self-adaptive
	Power	24 VAC, 60 W
	Operating Temperature and Humidity	From -40 °C to 60 °C (-40 °F to 140 °F); Humidity: 90% or less
General	Protection Level	IP66 standard; TVS 6000V lightning protection, surge protection and voltage transient protection
	Weight	8 kg (17.64 lb)

Product Showcase

Bi-Spectrum Network Positioning System



		Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
		Detector Pitch	17 μm
		Focal Length	25/50 mm, 384 × 288; 25/50 mm, 640 × 512
	Thermal Module	FOV	15°/7.5°; 25°/12.5°
		Aperture	F1.0
		NETD	< 40 mK (@ 25 °C, F#=1.0)
	Optical Camera	Min. Illumination	Color: 0.002 lux @ (F1.5 , AGC on) B/W: 0.0002 lux @ (F1.5 , AGC on)
		Temperature Measurement	Supports 3 temperature measurement rule types, over 256 presets as scene, 21 rules of each scene (10 points, 10 frames, and 1 line)
	Smart Functions	Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)
		Temperature Accuracy	Max (±2 °C, ±2%)
		Fire Detection	Supports 10 fire detection points
		Movement Range	Pan: 360° (continuous rotate); Tilt: From -90° to + 40° (auto flip)
	PTZ	Patrol Scan	8; Up to 32 presets per patrol
		Pattern Scan	4; More than 10 minutes per pattern
		IR Distance	Up to 200 m
	Integration	Alarm Input	Up to 7-ch relay input (0-5 VDC)
	integration	Alarm Output	Up to 2-ch; supports alarm linkage
		RS485	Half-Duplex; HIKVISION, PELCO-P and PELCO-D self-adaptive24
	General	Power	VAC, 120 W
		Operating Temperature and Humidity	From -40 °C to 60 °C (-40 °F to 140 °F); Humidity: 90% or less
		Protection Level	IP66 standard; TVS 6000V lightning protection, surge protection and voltage transient protection
		Weight	19 kg (41.89 lb)

DS-2TD6236T Series DS-2TD6266T Series

HIKVISION°

Thermal Network Bullet Camera

	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Pixel Interval	17 μm
Thermal Madula	Focal Length	10/15/25 mm, 384 × 288; 15/25 mm, 640 × 512
Thermal Module	FOV	37°/25°/15°; 40°/25°
	Aperture	F1.0
	NETD	Less than 40 mK (@25 °C, F#=1.0)
	Video Content Analysis (VCA)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules
Smart Function	Temperature Measurement	21 temperature measurement rules in 3 types (10 points, 10 frames, and 1 line)
Siliait Fullction	Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)
	Temperature Accuracy	Max (±2 °C, ±2%)
	Fire Detection	Dynamic fire point detection, up to 10 fire points detectable
	Operating Temperature and Humidity	-40 °C to 65 °C (-40 °F to 149 °F), 90% or less
General	Protection Level	IP66 standard TVS 6000V lightning protection, surge protection, voltage transient protection
	Dimensions	352.4 mm × 113.5 mm × 113 mm (13.9" × 4.45" × 4.45")
	Weight	2 kg (4.41 lb)



DS-2TD2136T Series
DS-2TD2166T Series

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Capturing the Invisible at a Glance

Hikvision Thermography Cameras







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