



Capture the Invisible at a Glance

Hikvision Thermography Cameras

HIKVISION[®]

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



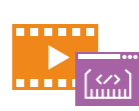
Visual Perception



Cloud Storage



Big Data



Video Codec



Audio and Video Data Storage



Cross-Media Perception and Reasoning

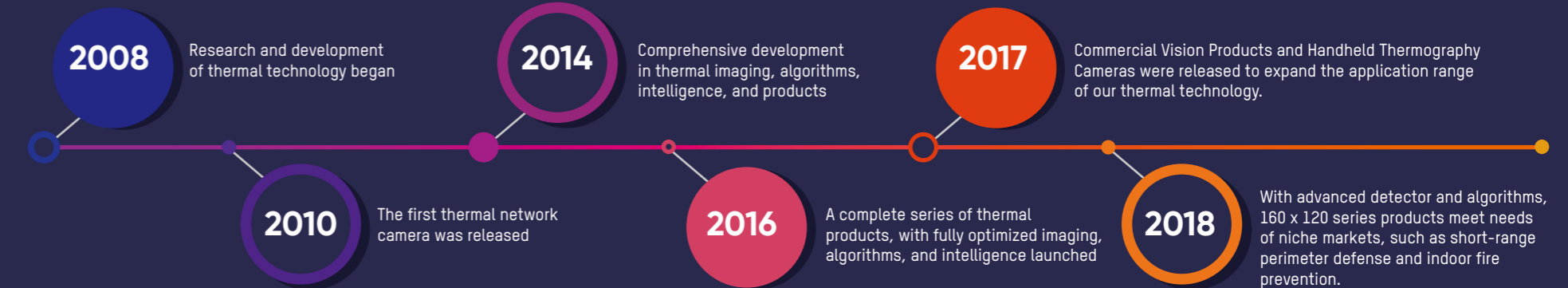


Streaming Media Networking and Management



Embedded Systems Development

HIKVISION Thermal Product Development Timeline



HIKVISION Thermography Cameras

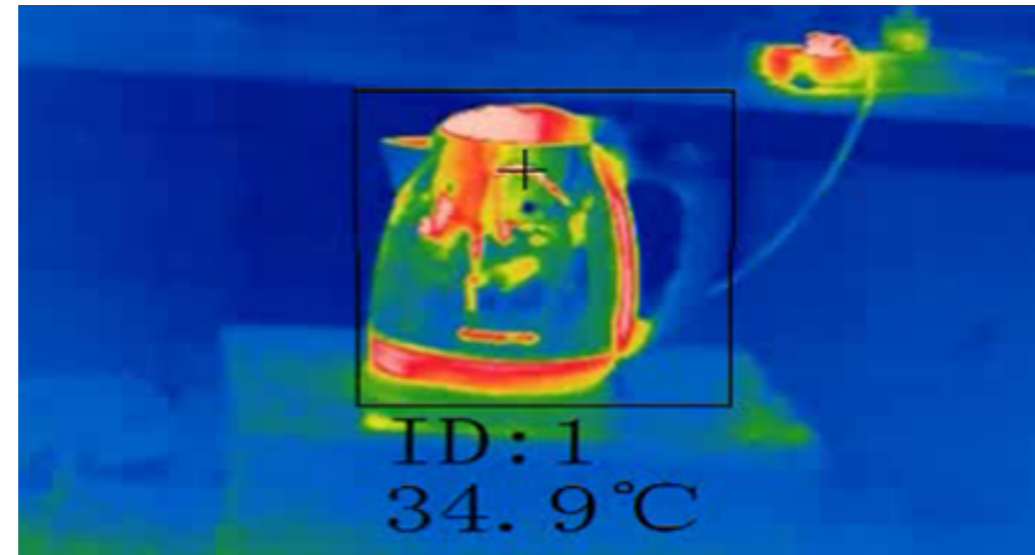
Hikvision's thermography cameras have been used widely in detecting temperature anomalies before a fire starts, finding hot spots and invisible defects on machinery or electrical systems that could indicate a potential problem. They are also used for surveying areas that are hard to reach with conventional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

Accurate Temperature Measurement

Accurate Temperature Measurement

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

In addition, Hikvision thermal products support multiple temperature measurement rules 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)

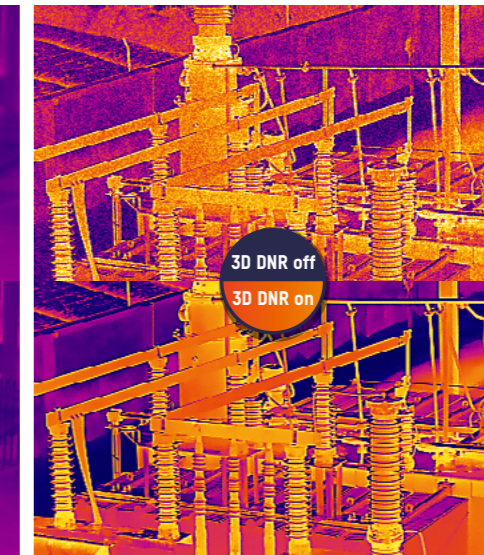
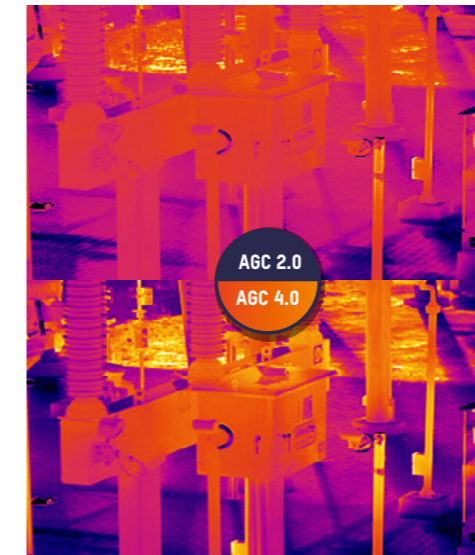
DDE is an advanced technology based on enhanced algorithms. This feature renders details more sharply in low contrast in any given region of interest.

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 – bi-spectrum 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.



Clear Imaging

Intuitive User Interface

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.



Hik-Thermal app



Online & offline temperature analysis
Measurements based on preset points, lines, and frames

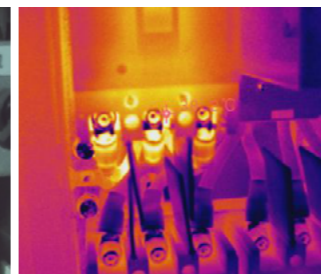
Exporting reports



Application Scenarios

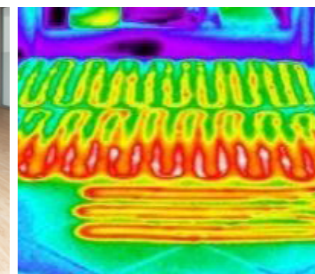
Electrical

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



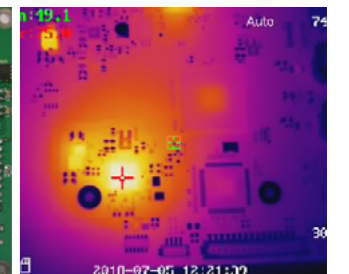
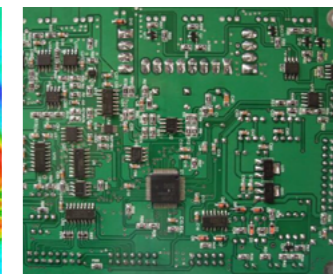
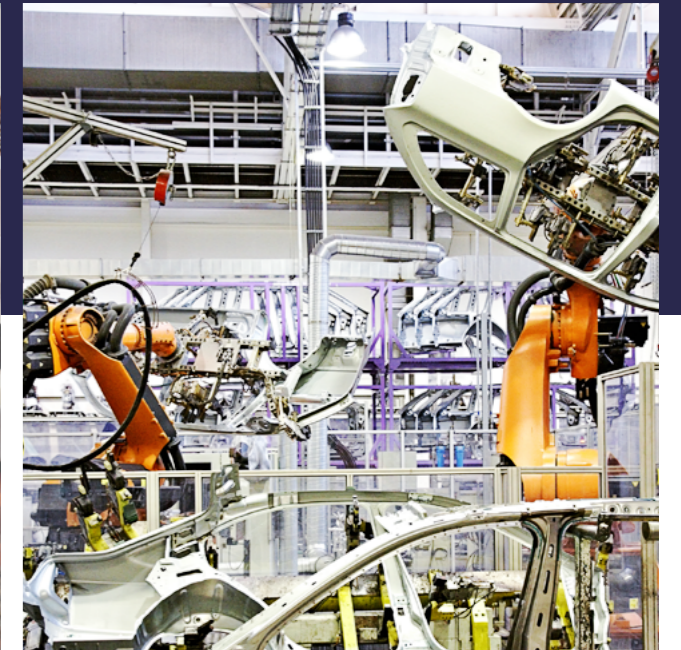
Building

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



Manufacturing

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



Handheld Thermography Cameras



DS-2TP31-3AUF

Thermal Module	Image Sensor	Uncooled Focal Plane Arrays, VOx
	Max. Resolution	160 x 120
	Pixel Pitch	17 μm
	NETD	< 40 mK (@ 25 °C, F#=1.0)
	Field of View	37.2° × 50°
	Focal Length	3.1 mm
	IFOV	5.48 mrad
	Min. Focal Length	≥ 150 mm
	Aperture	F 1.1
Image Display	Monitor	320 x 240 resolution 2.4" LCD display
	Palettes	Black hot, White hot, Rainbow, Ironbow
Thermography	Rules	3 Thermography points: max. temperature; min. temperature; center temperature
	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
	Photo	Supported
General	Hardware Interface	micro USB
	Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)
	Protection level	IP54
	Dimension	196 mm x 117 mm x 59 mm (7.7" x 4.6" x 2.3")
	Weight	350 g (0.77 lb)
	Accessories	Power adaptor, USB cable, 8 GB memory card, user manual, wrist strap



DS-2TP21-6AVF/W

Thermal Module	Image Sensor	Uncooled Focal Plane Arrays, VOx
	Max. Resolution	160 × 120 @ 25 Hz
	Pixel Pitch	17 μm
	NETD	< 40 mK (@ 25 °C, F#=1.0)
	Field of View	25° × 18.7°
	Focal Length	6.2 mm (manual focus)
	IFOV	2.74 mrad
Optical Module	Aperture	F 1.1
	Max. Resolution	Max 8MP
Image Display	Monitor	640 x 480 resolution 3.5" LCD touch display
	Palettes	Black hot, White hot, Red hot, Rainbow, Ironbow, Fusion, Rain
	Digital Zoom	Thermal: 1×, 2×, 4×
	Thermal / Optical	Thermal / Optical / Image Fusion / Picture in picture
	Video Recording	Supports on-board video recording
Thermography	Rules	Max. temperature; min. temperature; center temperature Custom point, line and frame Thermography
	Range	-20 °C to 550 °C (-4 °F to 1022 °F)
	Accuracy	Max (±2 °C, ±2%)
Battery	Battery Type	Replaceable and rechargeable lithium battery
	Operating Time	4 hours continuous running
Functions	Laser	For pointing to the target
	Photo	Supported
	Lighting	Supported
	Wi-Fi	Supported
General	Operating Temperature	-10 °C to 50 °C (-4 °F to 122 °F)
	Protection level	IP54
	Dimension	244 mm x 100 mm x 104 mm (9.6" x 3.9" x 4.1")
	Weight	660 g (1.46 lb)
	Accessories	Power adaptor/USB cable/16G Memory card /User manual/wrist strap/Pouch



DS-2TP23-10VF/W

Thermal Module	Image Sensor	Uncooled Focal Plane Arrays, V0x
	Max. Resolution	384 x 288 @ 25 Hz
	Pixel Pitch	17 μm
	NETD	< 40 mK (@ 25 °C, F#=1.0)
	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
Image Display	Monitor	640 x 480 resolution 3.5" LCD touch display
	Palettes	Black hot, White hot, Red hot, Rainbow, Ironbow, Fusion, Rain
	Digital Zoom	Thermal: 1×, 2×, 4×
	Thermal / Optical	Thermal / Optical / Image Fusion / Picture in picture
	Video Recording	Supports on-board video recording
Thermography	Rules	Max. temperature; min. temperature; center temperature Custom point, line and frame Thermography
	Range	-20 °C to 550 °C (-4 °F to 1022 °F)
	Accuracy	Max (±2 °C, ±2%)
Battery	Battery Type	Replaceable and rechargeable lithium battery
	Operating Time	Max 4h
Functions	Laser	Pinpoints targets for accuracy
	Photo	Supported
	Lighting	Supported
	Wi-Fi	Supported
General	Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)
	Protection level	IP54
	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



DS-2TA21 Series

Thermal Module	Image Sensor	Uncooled Focal Plane Arrays, V0x
	Max. Resolution	160 × 120 @ 25 Hz
	Pixel Pitch	17 μm
	NETD	< 40 mK (@ 25 °C, F#=1.0)
	Focal Length	2/3mm
	IFOV	2.74 mrad
	Aperture	F 1.1
	Field of View	90° × 66.4° / 50° × 37.2°
Optical Module	Min. Focusing Distance	0.1 or 0.15 m
	Max. Resolution	1600 × 1200
	Focal Length	2 mm
Smart Feature	Field of View	92.6° × 75.8°
	Temperature Range	-20 °C to 350 °C (-4 °F to 662 °F)
Interface	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
General	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%
	Protection Level	IP67
General	Dimensions	56 mm × 38.8 mm × 110 mm (2.20" × 1.53" × 4.33")
	Weight	335 g (0.74 lb)

Thermographic Automation Thermal Camera



Thermal Module	Image Sensor	Uncooled Focal Plane Arrays, VOx
	Pixel Pitch	17 μm
	Focal Length	7/15 mm, 384 × 288; 25mm, 640 × 512
	NETD	< 40 mK (@25 °C, F#=1.0)
	Focus Mode	Auto, Manual, Semi-auto Supports Regional Focus
Smart Features	Temperature Range	-20 °C to 150 °C (-4 °F to 302 °F) 0 °C to 550 °C (32 °F to 1022 °F)
	Temperature Accuracy	±2 °C (±3.6 °F) or ±2% (max)
	Temperature measurement Type	Display max. and min. temperatures in live view
General	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%
	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)

DS-2TA03 Series
DS-2TA06 Series

Bi-Spectrum Network Speed Dome



DS-2TD4136T Series
DS-2TD4166T Series

Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Detector Pitch	17 μm
	Focal Length	9/25/50 mm, 384 × 288; 9/25/50 mm, 640 × 512
	FOV	41°/15°/7.5°; 72°/ 25°/12.5°IP67
	Aperture	F1.0
Optical Camera	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)
	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)
	Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)
	Temperature Accuracy	Max (±2 °C, ±2%)
PTZ	Fire Detection	Supports 10 fire detection points
	Movement Range	Pan: 360° (continuous rotate); Tilt: From -15° to + 90° (auto flip)
	Patrol Scan	8; Up to 32 presets per patrol
Infrared Integration	Pattern Scan	4; More than 10 minutes per pattern
	IR Distance	Up to 200 m
General	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
	Protection Level	IP66 standard; TVS 6000V lightning protection, surge protection and voltage transient protection
	Weight	8 kg (17.64 lb)

Bi-Spectrum Network Positioning System



DS-2TD6236T Series
DS-2TD6266T Series

Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Detector Pitch	17 μm
	Focal Length	25/50 mm, 384 × 288; 25/50 mm, 640 × 512
	FOV	15°/7.5°; 25°/12.5°
	Aperture	F1.0
Optical Camera	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)
Smart Functions	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)
	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
PTZ	Movement Range	Pan: 360° (continuous rotate); Tilt: From -90° to + 40° (auto flip)
	Patrol Scan	8; Up to 32 presets per patrol
	Pattern Scan	4; More than 10 minutes per pattern
Integration	IR Distance	Up to 200 m
	Alarm Input	Up to 7-ch relay input (0-5 VDC)
	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)

Thermal Network Bullet Camera

Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Pixel Interval	17 μm
	Focal Length	10/15/25 mm, 384 × 288; 15/25 mm, 640 × 512
	FOV	37°/25°/15°; 40°/25°
	Aperture	F1.0
Optical Camera	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)
	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
General	Operating Temperature and Humidity	-40 °C to 65 °C (-40 °F to 149 °F), 90% or less
	Protection Level	IP66 standard TVS 6000V lightning protection, surge protection, voltage transient protection
Dimensions	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

Hikvision USA
T +1-909-895-0400
sales.usa@hikvision.com

Hikvision Australia
T +61-2-8599-4233
salesau@hikvision.com

Hikvision India
T +91-22-28469900
sales@pramahikvision.com

Hikvision Canada
T +1-866-200-6690
sales.canada@hikvision.com

Hikvision Thailand
T +662-275-9949
sales.thailand@hikvision.com

Hikvision Germany
T +49-69-401507290
sales.adch@hikvision.com

Hikvision UK & Ireland
T +01628-902140
sales.uk@hikvision.com

Hikvision South Africa
Tel: +27 (0) 351172
sale.africa@hikvision.com

Hikvision France
T +33(0)1-85-330-450
info.fr@hikvision.com

Hikvision Kazakhstan
T +7-727-9730667
nikia.panfilov@hikvision.ru

Hikvision Vietnam
T +84-974270888
sales.vt@hikvision.com

Hikvision Russia
T +7-495-669-67-99
saleru@hikvision.com

Hikvision Korea
T +82-(0)31-731-8817
sales.korea@hikvision.com

Hikvision Poland
T +48-22-460-01-50
info.pl@hikvision.com

Hikvision Europe
T +31-23-5542770
sales.eu@hikvision.com

Hikvision Italy
T +39-0438-6902
info.it@hikvision.com

Hikvision Brazil
T +55 11 3318-0050
Latam.support@hikvision.com

Hikvision Turkey
T +90 (216)521 7070- 7074
sales.tr@hikvision.com

Hikvision Malaysia
T +6-032-7224000
sales.my@hikvision.com

Hikvision Philippines
sales.ph@hikvision.com

Hikvision UAE
T +971-4-4432090
salesme@hikvision.com

Hikvision Singapore
T +65-6684-4718
sg@hikvision.com

Hikvision Spain
T +34-91-737-16-55
info.es@hikvision.com

Hikvision Tashkent
T +99-87-1238-9438
uzb@hikvision.ru

Hikvision Hong Kong
T +852-2151-1761
info.hk@hikvision.com

Hikvision Indonesia
T +62-21-2933759
Sales.Indonesia@hikvision.com

Hikvision Colombia
sales.colombia@hikvision.com

Capturing the Invisible at a Glance

Hikvision Thermography Cameras

HIKVISION[®]



Headquarters
No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T +86-571-8807-5998
overseasbusiness@hikvision.com

 [Hikvision](#)

 [HikvisionHQ](#)

 [HikvisionHQ](#)

 [Hikvision_Global](#)

 [hikvision](#)

 [Hikvision Corporate Channel](#)