Stay Ahead of the Flames Hikvision Thermal Products



KVISION

ABOUT HIKVISION

An Industry Pioneer

Hikvision is an IoT solution provider with video as its core competency. Featuring an extensive and highly skilled R&D workforce, Hikvision manufactures a full suite of comprehensive products and solutions for a broad range of vertical markets. In addition to the security industry, Hikvision extends its reach to smart home tech, industrial automation, and automotive electronics industries to achieve its long-term vision. Hikvision products also provide powerful business intelligence for end users, which can enable more efficient operations and greater commercial success.

Global Operations

Hikvision has established one of the most extensive regional networks in the industry, comprising 66 international subsidiaries and branch offices to ensure quick responses to the needs of customers, users, and partners.

Core Technologies





Artificia

Intelligence







Imaging Technology

Cloud Computing

Multi-Dimensional Perception

Big Data

Video Codec

Hikvision Thermal Products

SMALL-AREA FIRE PREVENTION

Indoors









Outdoors





11

11

C

0

tto

11 0 + 19

e Pro

010

0

11 -

0

0

Temperature Detectionn

34 3

3+ 19

37 3

310

37 19

HIKVISIO

NJ-

37 10

0

Provides non-contact temperature measurement for fast and visible detection, so actions can be taken early enough to prevent a fire before the worst happens.

,))

- 3

Light & Audio Warning

Detects threats in a timely manner and triggers a strobe light with customizable audio alarms.

110

likvision Thermal Products

MEDIUM-AREA FIRE PREVENTION



Forklift Filter

With the help of an Al algorithm, Hikvision thermography cameras recognize and ignore the heat from forklift engines to reduce unwanted alarms.



Sun Reflection

Our thermography cameras can analyze potential fire points. In the case of overexposure, the alarm will be filtered out.



HIKVISION°

HIKVISION

0



Industrial Scenarios



vision Thermal Products

LARGE-AREA FIRE PREVENTION

Excellent for protection in natural areas, both public and private





Wide Coverage

tikvision thermal PT cameras cover vast areas with fewer installation points for maximum cost reduction.





Accuracy

Our solution boosts low false alarm rates and timely, accurate detections to reduce potential losses.



Our solution provides 24/7 monitoring and detects fires as early as possible, deploying patrol routes to shorten intervals.

Thermal Channel: Fire Source Detection

Thermal fire source detection algorithms locate suspicious heat sources. They compare temperatures between a target and environment to detect differences against the set threshold.

Optical Channel: Smoke Detection

Optical lenses in PTZ cameras deliver smoke detection as a supplement to thermal fire-source detection. Since smoke comes before fire, and fire may be covered by leaves or terrain, the smoke detection algorithm helps to locate hazards early.









HIKVISION

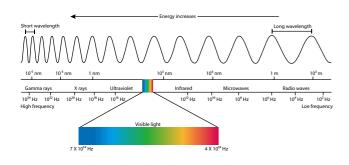
Wildlife Parks

Large Resorts

-

THE BASICS OF THERMAL CAMERAS

Each type of radiation has a unique wavelength. Any object with a temperature above absolute zero can emit a detectable amount of infrared radiation. The higher an object's temperature, the more infrared radiation is emitted.



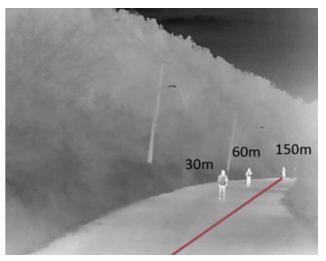
While invisible to human eyes, thermal cameras detect this kind of radiation (from wavelength 8 to $14 \mu m$, or 8,000 – 14,000 nm) and produce images using temperature differences, making it possible to see the environment without visible light.

An infrared camera's effective range is what is meant by "seeing an object". Defined thresholds, known as Johnson's Criteria, refer to the minimum number of pixels necessary to either detect, recognize, or identify targets captured by scene imagers. The lower limits of detection, recognition, and identification (DRI), according to Johnson criteria are:

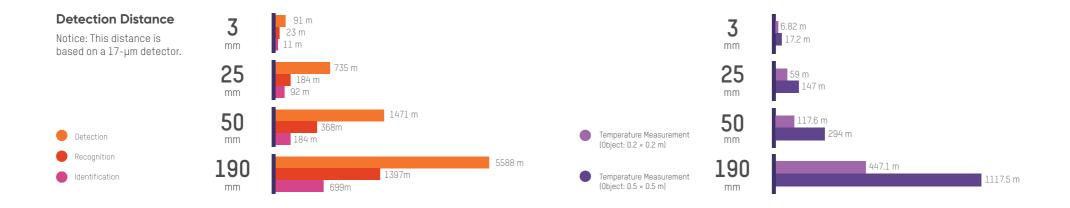
Detection: In order to distinguish an object from the background, the image must be covered by 1.5 or more pixels.

Recognition: In order to classify the object (animal, human, vehicle, boat, etc.), the image must have at least 6 pixels across its critical dimension.

Identification: In order to identify the object and describe it in details, the critical dimension must be at least 12 pixels across.



Detection, recognition and identification distances (with 8 mm lens)





WHY DO WE USE THERMOGRAPHY CAMERAS FOR TEMPERATURE MEASUREMENT?

Hikvision thermography cameras have been widely used 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. These cameras are also used for surveying areas that are hard to reach with conventional measurement tools.

Detect Fire Risks Right Away

Get Accurate Temperatures Instantly



Hikvision thermography cameras can efficiently identify temperature anomalies with visualized images. When the surface temperature of an object is abnormal, the camera will immediately trigger the alarm for fast and accurate troubleshooting.

Real-Time Warnings



Identifies temperature anomalies within a few seconds to help protect your property.

Non-Contact Inspection



Prevents damage to facilities



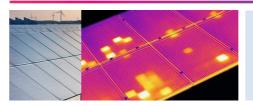
Through strict calibration and standardized testing procedures, Hikvision has established a temperature measurement model that offers high accuracy up to ±2 °C or ±2% (whichever is greater), along with a wide range from 20 to 550° C (-4° F to 1.022° F).

Flexible measurement rules help create more sensing methods.



and operations while providing continuous monitoring.

Visualized Image



Presents heating distribution clearly to vizualize fire locations easily.

PRODUCT MODELS

DS-2TD2628T/QA

HeatPro

Thermographic Network Bullet Camera



Thermal: 256 x 192, 12 µm, Optical: 2688 x 1520 Lens (Thermal): 3 / 7 mm Lens (Optical): 4 / 6 mm FOV (Thermal): 3 mm: 50.0 x 37.3°; 7 mm: 24.9 x 18.7° Audible Alert and Strobe Light Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1.022°F) Temperature Accuracy: Max (±2°C, ±2%) Operating Temperature: -40 to 65°C (-40 to 149°F) IP67, IK10

DS-2TD1228T/QA

Thermographic Network Turret Camera **Heat**Pro



DS-2TD3017T/V

Thermographic Network Cube Camera



Thermal: 160 x 120, 17 µm; Optical: 1600 x 1200 Lens (Thermal): 2 / 3 mm Lens (Optical): 1.29 mm FOV (Thermal): 2 mm: 90.0 x 66.4°; 3 mm: 50.0 x 37.2° Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1.022°F) Temperature Accuracy: Max (±2°C, ±2%) Operating Temperature: -20 to 50°C (-40 to 122°F)

HM-TD2037T/X

Automation Camera



Thermal: 384 x 288, 17 µm Lens (Thermal): 4 / 7 / 10 / 15 / 25 mm FOV: 4 mm: 90 x 65.2°: 7 mm: 60 x 44.1°: 10 mm: 37.5 x 28.5°, 15 mm: 24.3 x 18.4°, 25 mm: 14.8 x 11.2° Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1.022°F) Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: 1 ch. of input (0-3.3 VDC) Alarm Output: 1 ch. of relay outputs, alarm response actions configurable Operating Temperature: -20 to 50°C (-40 to 149°F) . IP40

DS-2TD2137T/QY

Thermographic Network Bullet Camera



Thermal: 384 x 288, 17 µm Lens: 4 / 7 mm FOV: 4 mm: 90 x 65.3°: 7 mm: 60 x 44.1° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1.022°C) Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: 2 ch. of inputs (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Operating Temperature: -40 to 65°C (-40 to 149°F) NEMA4X Anti-corrosion standard IP67, IK10

DS-2TD2167T/P

Thermographic Network



Thermal: 640 x 512, 17 µm Lens: 7 mm FOV: 7 mm: 88.5 x 73.2° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1.022°F) Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: 2 ch. of inputs (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Operating Temperature: -40 to 65°C (-40 to 149°F) IP67, IK10

DS-2TD2637T/QY

IP67

Thermographic Network Bullet Camera



Thermal: 384 x 288, 17 µm, Optical: 2688 x 1520 Lens: 7 / 10 / 15 mm FOV: 7 mm: : 60 x 44.1°: 10 mm: 37.5 x 28.5°: 15 mm: 24.5 x 18.5° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to+1.022°F) Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: 2 ch. of inputs (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Operating Temperature: -40 to 65°C (-40 to 149°F) NEMA4X Anti-corrosion standard IP67, IK10

DS-2TD2667T/P

Thermographic Network Bullet Camera



Thermal: 640 x 512, 17 µm, Optical: 2688 x 1520 Lens: 15 mm FOV: 15 mm: 42.5 x 33.6° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1.022°F) Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: 2 ch. of inputs (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Operating Temperature: -40 to 65°C (-40 to 149°F) IP67. IK10

HIKVISION[®]

HM-TD2067T/X

Thermographic Network Automation Camera



Thermal: 640 x 512, 17 μ m Lens (Thermal): 6 / 15/ 25 mm F0V: 6 mm: 88.5 x 73.2°, 15 mm: 41.9 x 33.4°, 25 mm: 24.5 x 19.7° Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1,02°F) Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: 1 ch. of input (0-3.3 VDC) Alarm Output: 1 ch. of relay outputs, alarm response actions configurable Operating Temperature: -20 to 50°C (-40 to 149°F) |P40

DS-2TD4228T/WY

Network Bi-Spectrum Speed Dome



Thermal: 256 x 192 12 μ m, Optical: 2688 x 1520 Lens (Thermal): 10 mm; Optical: 4.8-153 mm, 32X F0V: 10 mm: 18 x 13.5° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1,022°F) Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: Up to 7 ch. of input (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Operating Temperature: -40 to 65°C (-40 to 149° F) IP66

DS-2TD4237T/V2

Network Bi-Spectrum Speed Dome

FOV: 10 mm: 37.7 x 28.7°

+1.022°F)

IP66

Temperature Exception / Anomaly

Temperature Accuracy: Max (±2°C, ±2%)

Alarm Input: Up to 7 ch. of input (0-5 VDC)

Thermal: 384 x 288, 17 µm, Optical: 1920 x 1080

VCA: Line crossing / Intrusion / Region entry & exit

Temperature Exception Range: -20 to 550°C (-4 to

Alarm Output: 2 ch. of relay outputs, alarm response

Operating Temperature: -40 to 65°C (-40 to 149°F)

Lens (Thermal): 10 mm; Optical: 4.8-153 mm



DS-2TD4137T/W

Network Bi-Spectrum Speed Dome



Thermal: 384 x 288, 17 μ m, Optical: 2688 x 1520 Lens (Thermal): 9 / 25 / 50 mm; Optical: 6-240 mm FOV: 9 mm: 37.9 x 28.7 °; 25 mm: 14.9 x 11.2 °, 50 mm: 7.5 x 5.6° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1,022°F) Temperature Accuracy: Max (\pm 2°C, \pm 2%) Alarm Input: Up to 7 ch. of input (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Operating Temperature: -40 to 65°C (-40 to 149°F) IP66

DS-2TD4167T/WY

Network Bi-Spectrum Speed Dome



Thermal: 640 x 512, 17 μ m, Optical: 2688 x 1520 Lens (Thermal): 9 / 25 / 50 mm; Optical: 6–240 mm F0V: 9 mm: 72.0 x 56.1°; 25 mm: 24.5 x 19.7 °; 50 mm: 12.4 x 9.9 °

VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range:-20 to 550°C (-4 to

+1,022°F)

Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: Up to 7 ch. of input (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable

Operating Temperature: -40 to 65°C (-40 to 149°F) IP66

HM-TD5537T/W

Network Bi-Spectrum Mini PTZ Camera



Thermal: 384 x 288, 17 µm, Optical: 2688 x 1520 Thermal: 7 / 15 / 25 mm, Optical: 4MP, 4.8-153 mm FOV: 7 mm: 54.8 x 42.5°; 15 mm: 24.55 x18.54°; 25 mm: 14.9 x 11.2°

VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly

Temperature Exception Range: -20 to 550 °C (-4 to +1,022°F)

Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: 2 ch. of input (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Operating Temperature: -40 to 70 °C (-40 to 158°F) IP67

HM-TD5567T/W

actions configurable

Network Bi-Spectrum Mini PTZ Camera



Thermal: 640 x 512, 17 μm , Optical: 2688 x 1520 Thermal: 7 / 15 / 25 mm; Optical: 4MP, 4.8-153 mm F0V: 7 mm: 88.5 x 73.2 °; 15 mm: 41.7x 33.3 °; 25 mm: 24.9 x 20°

VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550 °C (-4 to

+1,022°F) Temperature Accuracy: Max (±2°C, ±2%)

Alarm Input: Up to 2 ch. of input (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable

Operating Temperature: -40 to 70°C (-40 to 158°F) IP67

DS-2TD6237T/W

actions configurable

IP66



Thermal: 384 x 288, 17 µm, Optical: 2688 x 1520 Thermal: 25 / 50 mm; Optical: 4MP, 6-240 mm FOV: 25 mm: 14.88 x 11.19°; 50mm: 7.47 x 5.61° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1,022°F) Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: Up to 7 ch. of input (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response

Operating Temperature: -40 to 65°C (-40 to 149°F)

Hikvision Thermal Products

DS-2TD6267T/W

Network Bi-Spectrum Positioning System



Thermal: 640 x 512, 17 µm, Optical: 2688 x 1520 Thermal: 25 / 50 mm: Optical: 4MP, 6-240 mm FOV: 25 mm: 24.55 x 19.75°; 50mm: : 12.42 x 9.95° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception / Anomaly Temperature Exception Range: -20 to 550°C (-4 to +1.022°F)

Temperature Accuracy: Max (±2°C, ±2%) Alarm Input: Up to 7 ch. of input (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Operating Temperature: -40 to 65°C (-40 to 149°F)

IP66

DS-2TD2537T/0

Thermography Explosion-proof Bullet



Thermal : 384 × 288, 17 µm, Optical : 2688 × 1520 Thermal: 4 / 10 / 15 mm; optical: 2 / 4 mm FOV: 4 mm: 90.0 × 65.4°/ 10 mm: 37.9 × 28.7° / 15 mm: 24.2 × 18.4°

Temperature Exception Range: -20 to 550°C (-4 to 1,022°F)

Temperature Accuracy: Max (± 2°C, ± 2%) Working Temperature: -40 to 60°C (-40 to 140°F) IP68 Standard, ATEX, IECEx

DS-2TD8167/WY

Network Bi-Spectrum Positioning System

Thermal: 640 × 512, 17 µm, Optical: 4: 2688 × 1520 2: 1920×1080 Lens (thermal): 150 / 190 / 230 mm Lens (optical): C (6.7-330 mm) / E (10-780 mm) / G (16.7-1000 mm) FOV: 150 mm: 20.56 × 16.51°; 190 mm: 17.19 × 13.79°; 230 mm: 26.61 × 21.43° VCA: Line crossing / Intrusion / Region entry & exit Temperature Exception Temperature Exception Range: -20 to 150°C (-4 to +302°F) Temperature Accuracy : ±8°C (±14.4°F) Working Temperature : -40 to 65°C (-40 to 149°F) Anti-corrosion Coating (Y); Supplemental Light (L)

DS-2TD95C8/W

Network Bi-Spectrum Sphere PTZ



Thermal: 1280 × 1024, 12 µm, Optical: 1920 × 1080 Lens (thermal): 150 / 190 / 300 mm Lens (optical): 2MP, 10-1000 mm/4MP. 10-800 mm FOV: 150 mm: 28.7 × 23.2°; 190 mm: 24.4 × 19.6°; 300 mm: 28.7 × 23.2° VCA: Line crossing / Intrusion / Region entry & exit / Temperature Exception / Ship Detection Temperature Exception Range: -20 to 150°C (-4 to +302°F)

Temperature Accuracy: ±8°C (±14.4°F) Working Temperature: -40 to 70°C (-40 to 158°F) IP67

DS-2TD2528T/Q

Thermography Explosion-proof Bullet



Thermal: 256 × 192, 12 µm, Optical: 2688 × 1520 Thermal: 3 / 7 / 10 mm; optical: 3.3 / 4 / 8 mm FOV: 3 mm: 50.0° × 37.3°/ 7 mm: 24.9° × 18.7°/ 10 mm: 18°×13.5° Temperature Exception Range: -20 to 550°C (-4 to 1.022°E) Temperature Accuracy: Max (± 2°C, ± 2%) Working Temperature: -40 to 60°C (-40 to 140°F) IP68 Standard, ATEX, IECEx

DS-2TD6567T-H4LX/W

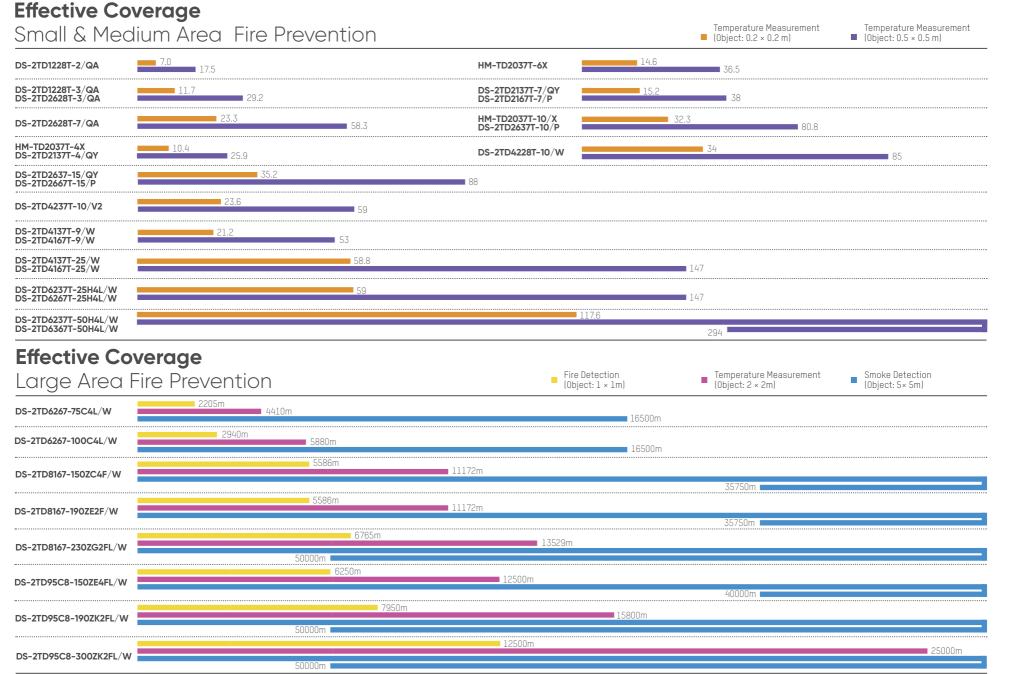
Thermography Explosion-proof

IP66



Thermal : 640×512, 17 µm, Optical : 2688 × 1520 Lens (thermal): 25/ 50 mm Lens (optical): 6-240mm, 40X FOV: 25 mm: 24.9°×20°/ 50 mm: 12.4°×10° (H × V) Temperature Exception Range: -20 to 550°C (-4 to 1.022°F) Temperature Accuracy: Max (± 2°C, ± 2%) Alarm Input: Up to 7 ch. of input (0-5 VDC) Alarm Output: 2 ch. of relay outputs, alarm response actions configurable Working Temperature: -40 to 60°C (-40 to 140°F) IP68 Standard, ATEX, IECEx







Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 Business: overseasbusiness@hikvision.com Technical Support: support@hikvision.com

Hikvision Australia Hikvision Azerbaijan Hikvision Brazil Hikvision Canada Hikvision Colombia Hikvision Czech **Hikvision Egypt** T+61-2-8599-4233 T +994 50 369 81 57 T +55-11-3318-0050 T +1-866-200-6690 sales.colombia@hikvision.com T +420 29 6182640 T +20223066117 Azerbaijan.CATC@hikvision.com Latam.support@hikvision.com sales.canada@hikvision.com info.cz@hikvision.com sales.eg@hikvision.com salesau@hikvision.com **Hikvision Europe Hikvision France Hikvision Germany** Hikvision Hong Kong, China Hikvision Hungary KFT **Hikvision India** Hikvision Indonesia T +33(0)1 85 330 450 sales.dach@hikvision.com T +91-22-6855 9944 T +6221 2933 9366 T +31 23 5542770 sales.hk@hikvision.com info.hu@hikvision.com sales.eu@hikvision.com info.fr@hikvision.com sales@pramahikvision.com Sales.Indonesia@hikvision.com **Hikvision Israel** Hikvision Italv Hikvision Kazakhstan Hikvision Kenva **Hikvision Korea** Hikvision Malavsia Hikvision Mexico T +972 79 5555590 T +39 0438 6902 T +7 (727) 291-75-88 wangchengbin@hikvision.com T +82-1661-8138 T+60327224000 T +52 55 2624 0110 sales.israel@hikvision.com info.it@hikvision.com support@hikvision.kz sales.korea@hikvision.com sales.my@hikvision.com sales.mexico@hikvision.com **Hikvision New Zealand Hikvision New Panama** Hikvision Pakistan **Hikvision Philippines** Hikvision Poland **Hikvision Russia Hikvision Romania** T 09 217 3127 Sales.centralamerica T+92-2135147526 support.ph@hikvision.com T +48 22 460 01 50 T+7-495-669-67-99 marketing.ro@hikvision.com support.pk@hikvision.com salesnz@hikvision.com @hikvision.com info.pl@hikvision.com saleru@hikvision.com **Hikvision Singapore** Hikvision South Africa Hikvision Spain Hikvision Tashkent **Hikvision Thailand Hikvision Turkev** Hikvision UAE T +65 6684 4718 T +27 877018113 T +34 91 737 16 55 T +99-87-1238-9438 sales.thailand@hikvision.com T +90 216 521 70 70 T +971-4-4432090 sg@hikvision.com sale.africa@hikvision.com info.es@hikvision.com uzb@hikvision.ru support.tr@hikvision.com salesme@hikvision.com

Hikvision UK & Ireland T+44(0)1628 902 140 info.uk@hikvision.com

Hikvision Uzbekistan T+998-71-233-55-50 uzbekistan@hikvision.com

Hikvision Vietnam T +84 24 7300 7586 sales.usa@hikvision.com sale.vn@hikvision.com

Follow us on social media to get the latest product and solution information







Hikvision USA

T +1-909-895-0400

Hikvision Global





