HIKVISION

AcuSense Technology

For more information, please visit our AcuSense page.

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AcuSense Technology

The Easy Upgrade to AI

FOCUS and ACT

Network Cameras | PTZs | NVRs | DVRs

HIKVISION

To protect homes and businesses, people need smart, proactive, reliable security solutions.
But traditional CCTV and alarm systems often fall short – with no way to spot real security threats and trigger alarms in real time.

Hikvision AcuSense ***solves these security challenges with the power of AI*** – helping ***boost security*** while also significantly ***reducing manual workloads and costs.***

Who is AcuSense for

AcuSense is for any homeowner or business that wants to take security to the next level – with ***labor-saving and cost-savings automation capabilities.***
With a range of intelligent cameras, NVRs, and DVRs that are perfect for home and business applications, AcuSense provides all the benefits of AI security, with a uniquely ***low total cost of ownership.***

With

AcuSense-enabled products, homeowners and businesses can

Respond to security threats proactively, in real time
With AI algorithms that detect real security threats and send alarms to users' mobile phones immediately.

Save time and reduce security costs
With fewer false alarms, and features for finding footage of incidents quickly and easily.

Upgrade to AI security quickly and easily
With AcuSense-enabled products that are fast and easy to install and configure.

How

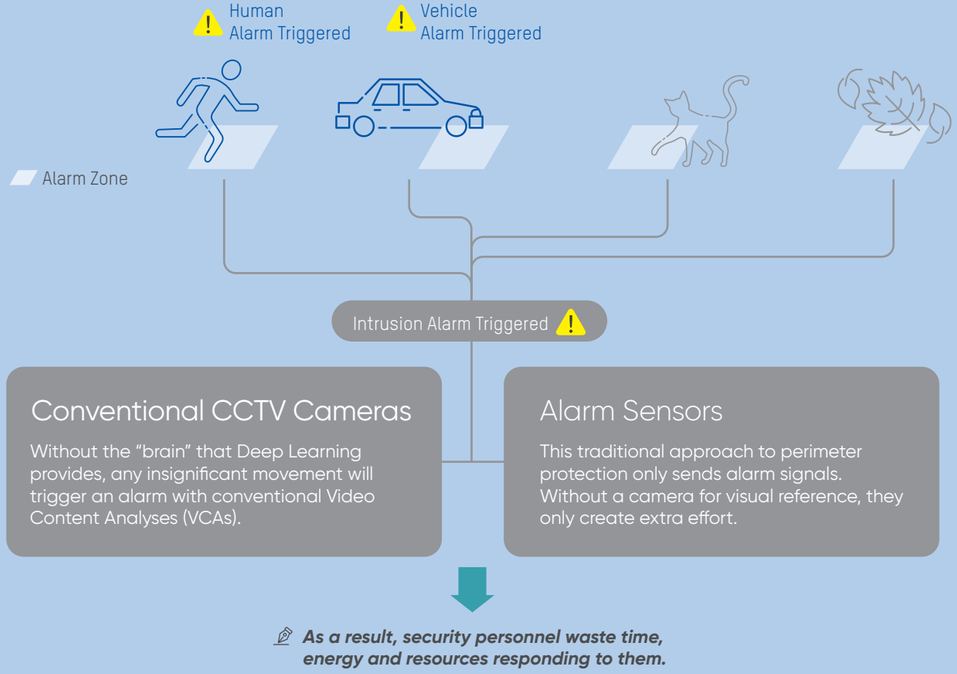
is AcuSense different

AcuSense-enabled Products

AcuSense technology recognizes whether the alarm was triggered by ***a person, a vehicle,*** or another object based on the deep-learning algorithm.*

As a result, you'll get an alarm only when people or vehicle intrusions are identified, depending on the event type you choose to focus on.

* Laboratory data shows that AcuSense technology can correctly identify up to 98% of the " others" category. This parameter may vary due to different installation environments.



Conventional CCTV Cameras

Without the "brain" that Deep Learning provides, any insignificant movement will trigger an alarm with conventional Video Content Analyses (VCAs).

Alarm Sensors

This traditional approach to perimeter protection only sends alarm signals.
Without a camera for visual reference, they only create extra effort.

As a result, security personnel waste time, energy and resources responding to them.

Proactive protection for homes and businesses

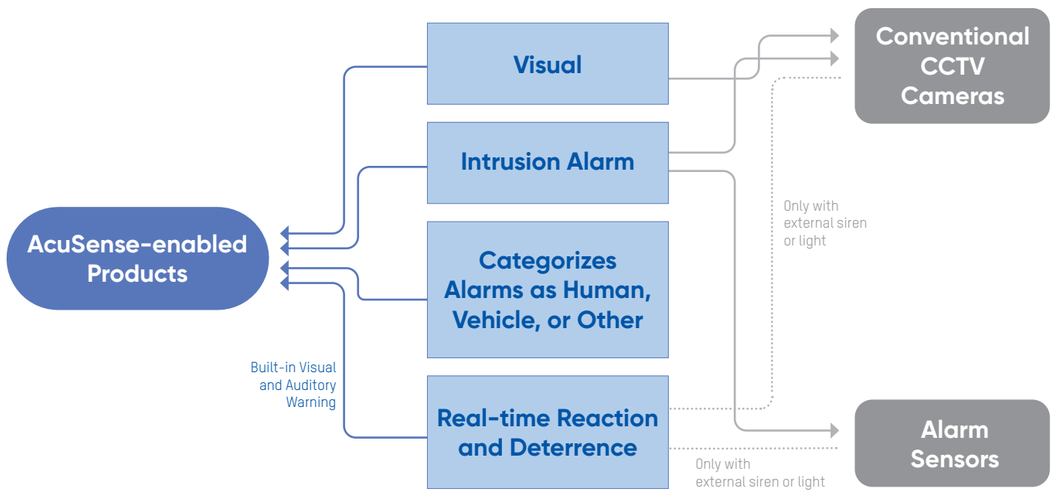
AcuSense helps homeowners and businesses to respond to security incidents in real time based on ***fast, reliable, verifiable intrusion alerts***. As a result, they can take security to the next level and respond faster to incidents before losses or damages are incurred.

How it works

Real time alarms
Which speed up responses and help to reduce damage or losses caused by vandalism, break-ins, and other security incidents.

Built-in visual and auditory warnings
Which deter many burglars, vandals, and trespassers before they even enter sites or buildings.

High-quality video imaging
For crystal clear evidence that can be used in legal processes if necessary



Increased efficiency, cost savings, and fast ROI

AcuSense technology helps homeowners and businesses to reduce security workloads and costs by ***minimizing false alarms***, and by ***making footage searches fast and easy.***

How it works

AI person and vehicle recognition
Which minimizes false alarms caused by animals, falling leaves, heavy rain, and other moving objects – reducing verification work and costly site visits.

'Labels' applied to video footage
Which support fast searches for security incidents, with no need to review footage manually.

Multiple security capabilities in a single device
Which allows homeowners and businesses to retire separate CCTV and alarm detector solutions for major cost savings

Search Targets Quickly by Type

For most security events, homeowners and businesses need to search for video clips that capture human or vehicle activities.
With AcuSense, this gets easier:

AcuSense Technology

Human Files Vehicle Files

With AcuSense technology, video clips are already sorted into "Human Files" and "Vehicle Files." This allows homeowners and businesses to click a category and use time or location information to quickly locate the clip that they want.

Conventional VCAs

1 2 ... ... n

There are plenty of clips that are about irrelevant objects – animals, leaves, light and shadow, etc.
To find the file that captures a specific target, homeowners and businesses have to browse through all event files within a given time period – which is highly time consuming.

AcuSense Application Scenarios

Alarm Receiving Center / Monitoring Center

Improved Alarm Accuracy and Search Efficiency

Security monitoring is never an easy task, especially if multiple locations need to be monitored concurrently.

Burglar alarm services

Traditional sensor-based or VCA-based burglar alarm services may be distracted with alarms triggered by insignificant objects. With an advanced algorithm, AcuSense technology can easily distinguish human and vehicle targets among other objects, sending alarms only when real intrusion events occur. Other events are stored, but not be flagged for attention.

Playback and video searches

Searching for a specific clip from an ocean of footage is time-consuming. With AcuSense technology, clips or files that are already classified become much easier to locate after an event takes place.

Restricted Areas

Customizable Visual and Auditory Warnings

Restricted areas or dangerous areas usually have signage to warn people of danger. People ignore these signs from time to time, resulting in serious consequences, trespassing in high-security zones, or enduring unfortunate incidents.

With AcuSense technology, end users can customize audio messages that can be broadcasted via cameras when a person or vehicle is detected trying to enter the area.

The human voice is a much more powerful warning compared to just a written sign. Trespassers are also more likely to turn back when they see a camera monitoring the area.

"It's great that I can use my security camera to verbally warn anyone who approaches the area."

Intrusion Detection and Deterrence for Home Security

Whether a homeowner chooses to keep an eye on their house themselves, or to hire a professional service provider to look after it for them, there are two functions that are critical for success:

Prompt Notifications to End Users' Smartphones

Whether events will be taken care of by the homeowner, or someone else, it's always good to have first-hand information. With AcuSense technology, notifications are sent via an App, or by SMS, when an alarm is triggered. This means that end users can quickly check live video from their phone – allowing them to verify potential security threats instantly.

Light and Sound Intruder Deterrence

Knowing what the suspect looks like is important, especially for providing evidence to police. However, by the time footage is available, losses have usually already occurred. It would be much better if there was a way to provide on-site deterrence to prevent any loss at all.

With AcuSense technology, this becomes possible! AcuSense-enabled network cameras, for example, can be set up to react to intrusion events with a flashing light and customizable siren, alerting any would-be intruder that they are being monitored and have already been spotted.

Factories

Accurate Trespass Alarm, 24 Hours a Day

Factories and warehouses store high-value raw materials or commodities. Security here is crucial. However, there are usually only limited resources available to perform such tasks.

Replace Security Patrols with Camera Monitoring

Using AcuSense-enabled products can greatly improve perimeter monitoring efficiency and ensure that limited human resources can be deployed only where they are needed most.

Accurate Trespassing Alarm for Human Targets

Factories and warehouses mostly deal with human intrusion events, which might turn into burglary or vandalism. With AcuSense technology, end users can configure their security devices to send alerts only when human intruders are detected – ensuring that moving animals and other moving objects never trigger false alarms.

"Now I get notified when people are entering the premises, not when a cat runs into the area."

Hikvision products with embedded AcuSense technology

Accurate Alarm for Humans and Vehicles

Search Targets Quickly by Type

Visual and Auditory Warning

Hikvision offers a range of security cameras, NVRs, and DVRs, that have AcuSense technology built in. These are able to detect humans and vehicles extremely reliably, triggering alarms to end users' mobile devices, and creating labels in video footage for fast, accurate incident searches.

High-end Hikvision cameras that incorporate AcuSense technology (such as model 2XX7G2 cameras) also use Hikvision ColorVu technology to provide extremely clear, high-resolution images of vehicles and people of interest – even in ultra low-light conditions or at night.

Most Hikvision cameras that incorporate AcuSense technology have built-in visual and auditory warnings to startle and put off intruders.

EasyIP 4.0 Network Cameras

ColorVu Technology

Appearance				
Model	DS-2CD2087G2-LU DS-2CD2047G2-LU DS-2CD2027G2-LU	DS-2CD2147G2-SU DS-2CD2127G2-SU	DS-2CD2387G2-LU DS-2CD2347G2-LU DS-2CD2327G2-LU	DS-2CD2T87G2-L DS-2CD2T47G2-L DS-2CD2T27G2-L
Key Features	• 2, 4 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67	• 2 or 4 MP resolution • 2.8 or 4 mm fixed lens • IP67, IK10	• 2, 4 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67	• 2, 4 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67

Appearance			Live Guard	Live Guard	Live Guard
Model	DS-2CD2647G2-LZS	DS-2CD2747G2-LZS	DS-2CD2047G2-LU/SL	DS-2CD2347G2-LSU/SL	DS-2CD2T47G2-LSU/SL
Key Features	• 4 MP resolution • **3.6 to 9 mm** motorized VF lens • IP67, IK10	• 4 MP resolution • **3.6 to 9 mm** motorized VF lens • IP67, IK10	• 4 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67	• 4 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67	• 4 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67

EasyIP 4.0 Network Cameras

Powered by DarkFighter

Appearance	*	*	*		
Model	DS-2CD2086G2-IU DS-2CD2066G2-IU DS-2CD2046G2-IU DS-2CD2026G2-IU	DS-2CD2186G2-ISU DS-2CD2166G2-ISU DS-2CD2146G2-ISU DS-2CD2126G2-ISU	DS-2CD2386G2-IU DS-2CD2366G2-IU DS-2CD2346G2-IU DS-2CD2326G2-IU	DS-2CD2T86G2-2I/4I DS-2CD2T66G2-2I/4I DS-2CD2T46G2-2I/4I DS-2CD2T26G2-2I/4I	DS-2CD2466G2-I DS-2CD2446G2-I DS-2CD2426G2-I
Key Features	• 2, 4, 6 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67	• 2, 4, 6 or 8 MP resolution • 2.8 or 4 mm fixed lens • IP67, IK10	• 2, 4, 6 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67	• 2, 4, 6 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67, IK10	• 2, 4, 6 MP resolution • 2.8 or 4 mm fixed lens

Appearance					Live Guard
Model	DS-2CD2586G2-IS DS-2CD2566G2-IS DS-2CD2546G2-IS DS-2CD2526G2-IS	DS-2CD2686G2-IZS DS-2CD2666G2-IZS DS-2CD2646G2-IZS DS-2CD2626G2-IZS	DS-2CD2786G2-IZS DS-2CD2766G2-IZS DS-2CD2746G2-IZS DS-2CD2726G2-IZS	DS-2CD2H86G2-IZS DS-2CD2H66G2-IZS DS-2CD2H46G2-IZS DS-2CD2H26G2-IZS	DS-2CD2086G2-IU/SL DS-2CD2066G2-IU/SL DS-2CD2046G2-IU/SL DS-2CD2026G2-IU/SL
Key Features	• 2, 4, 6 or 8 MP resolution • 2.8 or 4 mm fixed lens • IP66, IK10	• 2, 4, 6 or 8 MP resolution • 2.8 to 12 mm motorized VF lens • IP66, IK10	• 2, 4, 6 or 8 MP resolution • 2.8 to 12 mm motorized VF lens • IP66, IK10	• 2, 4, 6 or 8 MP resolution • 2.8 to 12 mm motorized VF lens • IP66, IK10	• 2, 4, 6 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP66

Appearance	Live Guard	Live Guard	Live Guard
Model	DS-2CD2386G2-ISU/SL DS-2CD2366G2-ISU/SL DS-2CD2346G2-ISU/SL DS-2CD2326G2-ISU/SL	DS-2CD2T86G2-ISU/SL DS-2CD2T66G2-ISU/SL DS-2CD2T46G2-ISU/SL DS-2CD2T26G2-ISU/SL	DS-2CD2686G2-IZSU/SL DS-2CD2666G2-IZSU/SL DS-2CD2646G2-IZSU/SL DS-2CD2626G2-IZSU/SL
Key Features	• 2, 4, 6 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP66	• 2, 4, 6 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP66	• 2, 4, 6 or 8 MP resolution • 2.8 to 12 mm motorized VF lens • IP66, IK10

* Built-in microphone

EasyIP 2.0+ Network Cameras

Appearance	*	*	*		
Model	DS-2CD2043G2-IU DS-2CD2083G2-IU	DS-2CD2143G2-I(S/U) DS-2CD2183G2-I(S/U)	DS-2CD2343G2-IU DS-2CD2383G2-IU	DS-2CD2443G2-I DS-2CD2483G2-I	DS-2CD2543G2-I(W)S DS-2CD2583G2-IS
Key Features	• 4 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67	• 4 or 8 MP resolution • 2.8 or 4 mm fixed lens • IP67, IK10	• 4 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67	• 4 or 8 MP resolution • 2.8 or 4 mm fixed lens • Microphone and speaker	• 4 or 8 MP resolution • 2.8 or 4 mm fixed lens • IP67, IK08

Appearance	*				
Model	DS-2CD2E43G2-U	DS-2CD2T43G2-2I/4I DS-2CD2T83G2-2I/4I	DS-2CD2643G2-IZS DS-2CD2683G2-IZS	DS-2CD2743G2-IZS DS-2CD2783G2-IZS	DS-2CD2H43G2-IZS DS-2CD2H83G2-IZS
Key Features	• 4 MP resolution • 2.8, 4 or 6 mm fixed lens	• 4 or 8 MP resolution • 2.8, 4 or 6 mm fixed lens • IP67, IK10	• 4 or 8 MP resolution • 2.8 to 12 mm motorized VF lens • IP67	• 4 or 8 MP resolution • 2.8 to 12 mm motorized VF lens • IP67, IK10	• 4 or 8 MP resolution • 2.8 to 12 mm motorized VF lens • IP67

* Built-in microphone

PTZ
Network Cameras

Appearance			
Model	DS-2DE3A400BW-DE(/W)	DS-2DE4225IW-DE	DS-2DE4425IW-DE
Key Features	• 3 inch • 4 MP • 0 x optical zoom • 30m white light distance • Plus ColorVu and Live Guard • Pan speed: 60°/s, Tilt speed: 50°/s • IP66	• 4 inch • 2 MP • 25x zoom • 100m IR • Powered by DarkFighter • Pan speed: 80°/s, Tilt speed: 80°/s • IP66	• 4 inch • 4 MP resolution • 25× optical zoom • 100 m IR distance • Powered-by-DarkFighter • Pan speed: 80°/s, Tilt speed: 80°/s • IP66

Appearance			
Model	DS-2DE5225IW-AE	DS-2DE7A232IW-AEB(T5)	DS-2DE7A432IW-AEB(T5)
Key Features	• 5 inch • 2 MP • 25x zoom • 150m IR • Powered by DarkFighter • Pan speed: 120°/s, Tilt speed: 80°/s • IP66	• 7 inch • 2 MP • 32x zoom • 200m IR • Powered by DarkFighter • Pan speed: 240°/s, Tilt speed: 200°/s • IP66, IK10	• 7 inch • 4 MP • 32x zoom • 200m IR • Powered by DarkFighter • Pan speed: 240°/s, Tilt speed: 200°/s • IP66, IK10

Network
Video Recorders

Model	Appearance	Key Features
DS-7608NXI-I2(/8P)/S(C)		• Up to 8-ch network camera input • Intelligent analysis based on deep learning algorithm: up to 4-ch perimeter protection; up to 1-ch facial recognition for video streams or 4-ch facial recognition for face pictures • Quick target search • H.265+/H.265/H.264+/H.264 video formats • Up to 16-ch 1080p decoding capability • Optional 8 PoE ports, with /8P model • 1U chassis
DS-7616NXI-I2(/16P)/S(C)		• Up to 16-ch network camera input • Intelligent analysis based on deep learning algorithm: up to 4-ch perimeter protection; up to 1-ch facial recognition for video streams or 4-ch facial recognition for face pictures • Quick target search • H.265+/H.265/H.264+/H.264 video formats • Up to 16-ch 1080p decoding capability • Optional 16 PoE ports, with /16P model • 1U chassis
DS-7716NXI-I4(/16P)/S(C)		• Up to 16-ch network camera input • Intelligent analysis based on deep learning algorithm: up to 4-ch perimeter protection; up to 1-ch facial recognition for video streams or 4-ch facial recognition for face pictures • Quick target search • H.265+/H.265/H.264+/H.264 video formats • Up to 16-ch 1080p decoding capability • Optional 16 PoE ports, with /16P model • 1.5U chassis
DS-7732NXI-I4(/16P)/S(C)		• Up to 32-ch network camera input • Intelligent analysis based on deep learning algorithm: up to 4-ch perimeter protection; up to 1-ch facial recognition for video streams or 4-ch facial recognition for face pictures • Quick target search • H.265+/H.265/H.264+/H.264 video formats • Up to 16-ch 1080p decoding capability • Optional 16 PoE ports, with /16P model • 1.5U chassis

Digital Video Recorders

Appearance			
Model	Key Features	Model	Key Features
iDS-7204HUHI-K1(2)/4S(C)	• Deep learning based motion detection on all 4 channels • Up to 4-ch deep learning based perimeter protection • 5 MP @ 12 fps (CH1: supports 8 MP @ 8 fps) • A maximum input of 8 netwok cameras (up to 8 MP)	iDS-7204HUHI-M1(2)/FA(C)	• Deep learning based motion detection on all 4 channels • 1-ch face capture and comparison • Up to 4-ch deep learning based perimeter protection • 5 MP @ 12 fps (CH1: supports 8 MP @ 8 fps) • A maximum input of 8 network cameras (up to 8 MP)
iDS-7208HUHI-K1(2)/4S(B)	• Deep learning based motion detection on all 8 channels • Up to 4-ch deep learning based perimeter protection • 8 MP @ 8 fps / 5 MP @ 12 fps • A maximum input of 16 network cameras (up to 8 MP)	iDS-7208HUHI-M1(2)/FA	• Deep learning based motion detection on all 8 channels • 1-ch face capture and comparison • Up to 4-ch deep learning based perimeter protection • 8 MP @ 8 fps / 5 MP @ 12 fps • A maximum input of 16 network cameras (up to 8 MP)
iDS-7216HUHI-K2/4S(C)	• Deep learning based motion detection on all 16 channels • Up to 4-ch deep learning based perimeter protection • 8 MP @ 8 fps / 5 MP @ 12 fps • A maximum input of 24 network cameras (up to 8 MP)	iDS-7204HQHI-M1/FA(C)	• Deep learning based motion detection on all 4 channels • 1-ch face capture and comparison • Up to 2-ch deep learning based perimeter protection • 4 MP Lite@ 15 fps / 1080p @ 15 fps • A maximum input of 6 network cameras (up to 6 MP)
iDS-7204HQHI-K1/2S(C)	• Deep learning based motion detection on all 4 channels • Up to 2-ch deep learning based perimeter protection • 4 MP Lite@ 15 fps / 1080p @ 15 fps • A maximum input of 6 network cameras (up to 6 MP)	iDS-7208HQHI-M1(2)/FA(C)	• Deep learning based motion detection on all 8 channels • 1-ch face capture and comparison • Up to 4-ch deep learning based perimeter protection • 4 MP Lite @ 15 fps / 1080p @ 15 fp • A maximum input of 12 network cameras (up to 6 MP)
iDS-7208HQHI-K1(2)/4S(C)	• Deep learning based motion detection on all 8 channels • Up to 4-ch deep learning based perimeter protection • 4 MP Lite @ 15 fps / 1080p @ 15 fp • A maximum input of 12 network cameras (up to 6 MP)	iDS-7216HQHI-M1(2)/FA	• Deep learning based motion detection on all 16 channels • 1-ch face capture and comparison • Up to 4-ch deep learning based perimeter protection • 4 MP Lite @ 15 fps / 1080p @ 15 fps • A maximum input of 24 network cameras (up to 6 MP)
iDS-7216HQHI-K1(2)/4S(B)	• Deep learning based motion detection on all 16 channels • Up to 4-ch deep learning based perimeter protection • 4 MP Lite @ 15 fps / 1080p @ 15 fps • A maximum input of 24 network cameras (up to 6 MP)		

Calling all Hikvision distributors and installers!

By delivering innovative, AI-powered security features at an affordable price point, AcuSense helps Hikvision installers and distributors to sell more, and deliver even more value for customers. This helps all our installers and distributors to build stronger, longer, and more profitable customer relationships.

As an additional benefit, AcuSense-enabled cameras are as easy to install and configure as traditional CCTV cameras, so installers can begin delivering this exciting new technology for customers quickly, and with minimal training. Hikvision also provides all the information and support needed to get started quickly!

For more information on the benefits of Hikvision AcuSense for installers and distributors of Hikvision products, please contact us today.