



A feeling of security is a universal human need. And beyond physical, bodily security, people need to know that their environment, investments, and belongings are safe as well. Security systems are installed in homes and businesses every day to create that sense of security.

Compared to conventional sensor-based alarm systems, a surveillance system that utilizes cameras has several advantages:

- The ability to watch events in real-time,
- Obtaining key data around those events, and
- Providing solid and accurate evidence for law enforcement.

Empowered by deep learning algorithms, AcuSense technology distinguishes people and vehicles from other moving objects. AcuSense is your perfect choice for an accessible and intelligent security system!

AcuSense



Accurate Alarm for Humans and Vehicles



Search Targets Quickly by Type



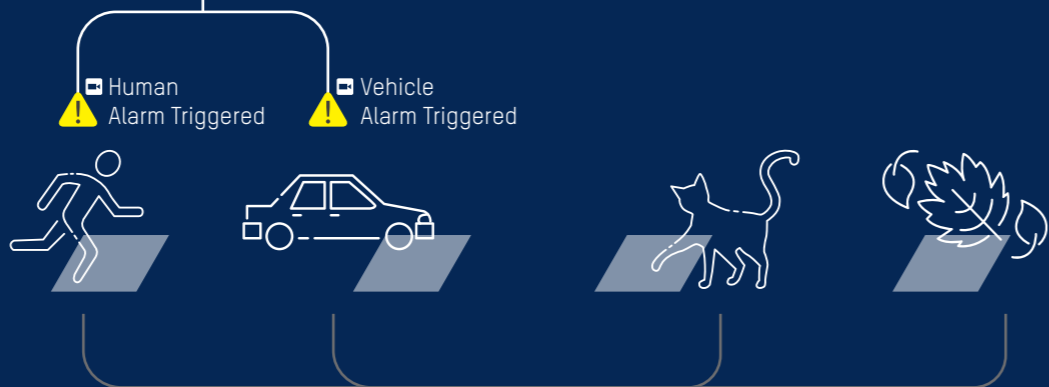
Visual and Audible Alarm

Accurate Alarm for Humans and Vehicles

AcuSense

Devices *recognize* 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 when *people or vehicle intrusions are identified, depending on the event type you choose to focus on.*



Alarm Zone

Intrusion Alarm Triggered

Conventional Surveillance products VCAs

Without the "brain" that Deep Learning provides, any insignificant movement will trigger an alarm.

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

Alarm Sensors

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

Accuracy of sensors can also be affected by temperature changes (for example, a PIR sensor) or other sudden changes in surroundings.

	Visual	Intrusion Alarm	Categorizes Alarms as Human, Vehicle, or Other	Real-Time reaction and Deterrence
AcuSense	✓	✓	✓	✓ Built-in Visual and Audible Alarm
Conventional Surveillance Products	✓	✓	✗	Maybe; External siren or light
Alarm Sensors	✗	✓	✗	Maybe; External siren or light



How can AcuSense technology help when you want to level-up your protection for your property?

Search Targets Quickly by Type

For most security events, you will search for video clips that captured human or vehicle activities. With AcuSense technology, this gets easier.

Video Content Analyses



There are plenty of clips that are about irrelevant objects – animals, leaves, light and shadow, etc.

You'll still need to browse through all event files within a period to find the one that captures your target.

AcuSense Technology



Video clips are already sorted into "Human Files" and "Vehicle Files." Just simply click one of these categories and use time or channel information to quickly locate the clip that you want.

Application Scenarios



Residences

Intrusion Detection and Deterrence for Home Security

Whether you choose to keep an eye on the house yourself or hire a professional service provider to look after your home, there're two functions you will surely want to have:

Prompt Notification via Smartphone

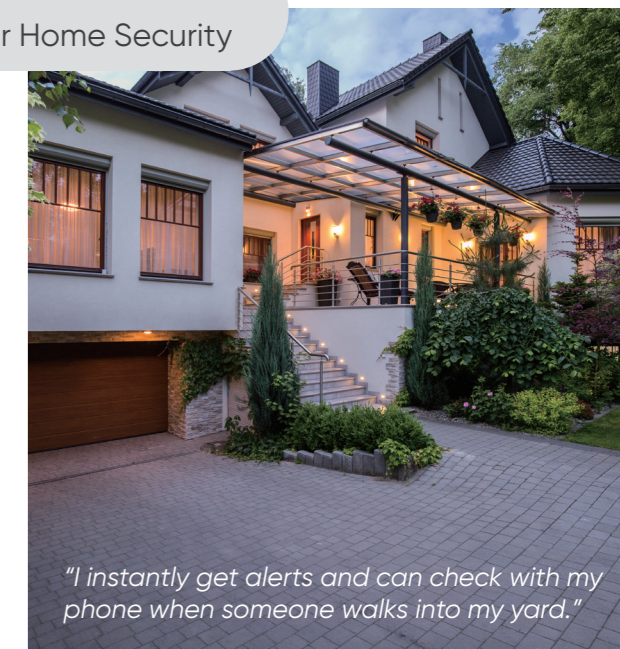
Whether events will be taken care of by you or someone else, it's also good to have first-hand information. You'll get a notification on the App or via SMS when the alarm is triggered. Then check out the live video from your phone.

Light and Sound Intruder Deterrence

Knowing what the suspect looks like is important, especially for providing evidence to police. However, property losses have already occurred at that time. It would be even better if there were means that can provide on-site deterrence and prevent any loss at all. Now you can!

Network Cameras with AcuSense technology, white light and audio alarm can be set 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.

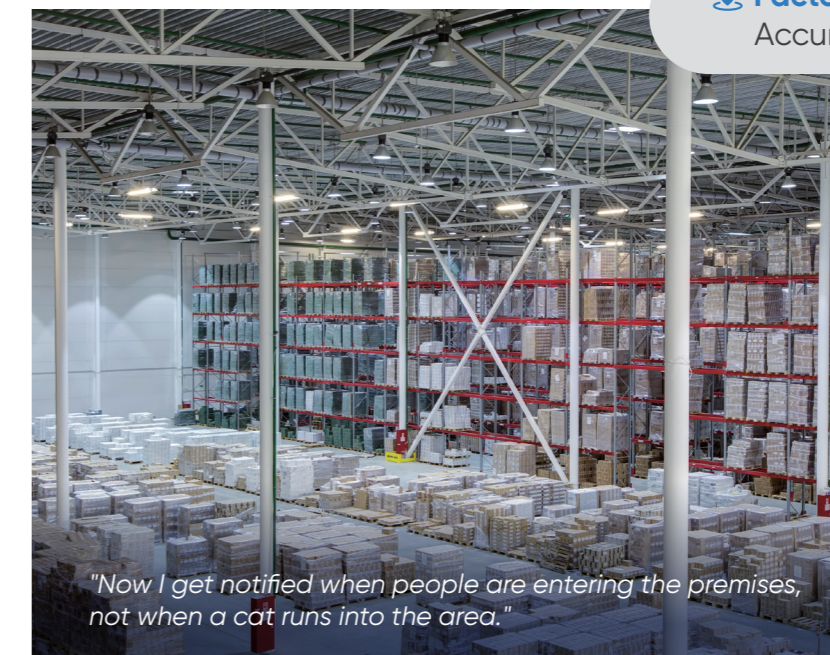
Turbo DVR with AcuSense technology requires a PIR / TurboX camera for visual and audible alarm.



"I instantly get alerts and can check with my phone when someone walks into my yard."

Factories

Accurate Trespass Alarm, 24 Hours a Day



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

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

Replace Security Patrols with Camera Monitoring

Using AcuSense technology can greatly improve perimeter monitoring efficiency and ensure that limited human resources can be deployed only where most needed.

Accurate Trespassing Alarm for Human Targets

Factories and warehouses mostly deal with human intrusion events, which might turn into burglary or vandalism.

The security team can set devices with AcuSense to send alerts only upon the detection of a human intrusion. Wild animals crossing the line will no longer trigger the alarm.

IP Solutions with AcuSense

AcuSense Cameras



Camera Type						
Model	DS-2CD2086G2-IU DS-2CD2046G2-IU DS-2CD2026G2-IU	DS-2CD2146G2-ISU* DS-2CD2126G2-ISU	DS-2CD2386G2-IU DS-2CD2346G2-IU DS-2CD2326G2-IU	DS-2CD2T86G2-2I/4I DS-2CD2T46G2-2I/4I DS-2CD2T26G2-2I/4I	DS-2CD2686G2-IZS DS-2CD2646G2-IZS DS-2CD2626G2-IZS	DS-2CD2786G2-IZS DS-2CD2746G2-IZS DS-2CD2726G2-IZS
Key Features	2 / 4 / 8 MP resolution					
	2.8 / 4 / 6 mm fixed lens, optional			2.8-12 mm motorized VF lens		
	IP66(-IU models)	IP66(-ISU models), IK10	IP66(-IU models)	IP67, IK10	IP66, IK10	

*-U: built-in microphone

AcuSense Camera with White Light and Audio Alarm



Camera Type				
Model	DS-2CD2046G2-IU/SL DS-2CD2026G2-IU/SL	DS-2CD2386G2-ISU/SL DS-2CD2346G2-ISU/SL DS-2CD2326G2-ISU/SL	DS-2CD2T86G2-ISU/SL DS-2CD2T46G2-ISU/SL DS-2CD2T26G2-ISU/SL	DS-2CD2686G2-IZSU/SL DS-2CD2646G2-IZSU/SL DS-2CD2626G2-IZSU/SL
Key Features	2 / 4 MP resolution	2 / 4 / 8 MP resolution		
	2.8 / 4 / 6 mm fixed lens, optional			2.8 - 12 mm motorized VF lens
	IP66		IP66, IK10	

These products will be available from April 2020

Compatible NVRs

76/77 I series NVR | 76/77 K series*

Support functions including • Recording/Playback • Quick target search • cameras with AcuSense Technology false alarm reduction can be configured by NVR.

*From June 2020 firmware update

Turbo Solutions with AcuSense

DVRs



iDS-7204HUHI-K1/4S(B) | iDS-7204HUHI-K2/4S(B)
5MP 4-Channel AcuSense DVR

- Deep learning-based facial detection or behavior analysis
- 1-ch human face capture or 4-ch false alarm reduction
- 5 MP @ 12 fps (CH1: supports 8 MP @ 8fps)
- Maximum 8 IP Camera Inputs (up to 8 MP)
- Quick Target Search by human body /faces/vehicle
- Visual and audible alarming by working with PIR/Turbo X cameras.
- Audio over Coax

iDS-7204HQHI-K1/2S(B)
2MP 4-Channel AcuSense DVR

- Deep learning-based facial detection or behavior analysis
- 1-ch human face capture or 2-ch false alarm reduction
- 4 MP Lite @ 15 fps / 1080p @ 15fps
- Maximum 6 IP Camera Inputs (up to 6 MP)
- Quick Target Search by human body /faces/vehicle
- Visual and audible alarming by working with PIR/Turbo X cameras.
- Audio over Coax

iDS-7216HQHI-K1/4S(B) | iDS-7216HQHI-K2/4S(B)
2MP 16-Channel AcuSense DVR

- Deep learning-based facial detection or behavior analysis
- 1-ch human face capture or 4-ch false alarm reduction
- 4 MP Lite @ 15 fps / 1080p @ 15fps
- Maximum 24 IP Camera Inputs (up to 6 MP)
- Quick Target Search by human body /faces/vehicle
- Visual and audible alarming by working with PIR/Turbo X cameras.
- Audio over Coax

TurboX Cameras

Camera Type		
Model	DS-2CE12DFT-PIRXOF	DS-2CE72DFT-PIRXOF
Key Features	2MP PIR Siren Full Time ColorVu Camera. 2MP, 1920 x 1080 resolution, 24/7 Full time colourful image, PIR detection, Red & blue flashing, light alarm, audible alarm, alarm output.	



iDS-7208HUHI-K1/4S(B) | iDS-7208HUHI-K2/4S(B)
5MP 8-Channel AcuSense DVR

- Deep learning-based facial detection or behavior analysis
- 1-ch human face capture or 4-ch false alarm reduction
- 8 MP @ 8fps / 5 MP @ 12 fps
- Maximum 16 IP Camera Inputs (up to 8 MP)
- Quick Target Search by human body /faces/vehicle
- Visual and audible alarming by working with PIR/Turbo X cameras.
- Audio over Coax

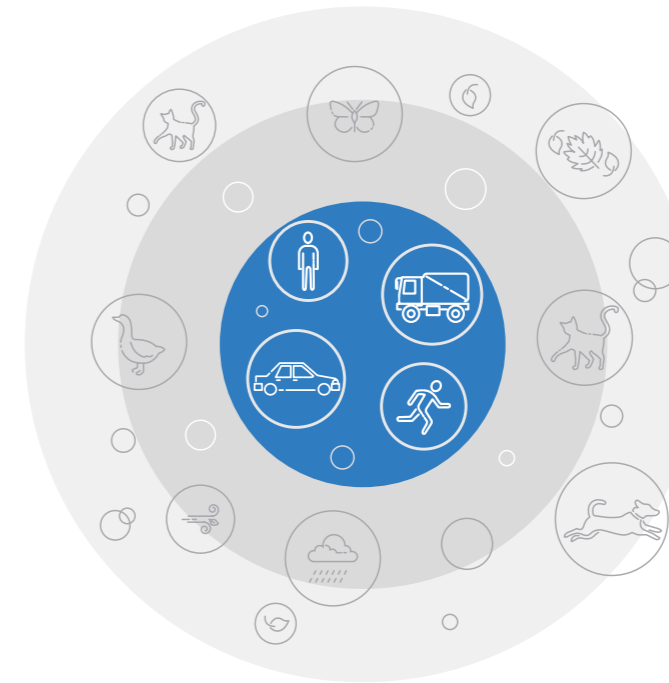
iDS-7208HQHI-K1/4S(B) | iDS-7208HQHI-K2/4S(B)
2MP 8-Channel AcuSense DVR

- Deep learning-based facial detection or behavior analysis
- 1-ch human face capture or 4-ch false alarm reduction
- 4 MP Lite @ 15 fps / 1080p @ 15fps
- Maximum 12 IP Camera Inputs (up to 6 MP)
- Quick Target Search by human body /faces/vehicle
- Visual and audible alarming by working with PIR/Turbo X cameras.
- Audio over Coax

To benefit from visual and audible alarm, DVR's with AcuSense technology require a TurboX or PIR camera.

FOCUS and ACT

Responding to
Human and Vehicle Events



Hikvision
AcuSense Technology
Network Cameras | Turbo HD DVRs



For more information, please visit our AcuSense page.

