



Solutions **Built for Cannabis**





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From cultivation to distribution, Hanwha Vision products meet the unique challenges of keeping cannabis businesses secure and in compliance with regulatory requirements. All activity at cannabis facilities needs to be monitored, tracked, recorded and stored for regulatory compliance and, in some cases, investigative use. Hanwha Vision’s wide array of IP camera solutions can address any cannabis security and surveillance need.

- ✓ Meets or exceeds all industry standards and requirements for video surveillance
- ✓ Cost saving multi-sensor and specialty devices and data compression technologies
- ✓ AI-based video analytics to increase monitoring efficiency and reduce false alarm events



Cultivation



Dispensary



Testing Lab



Extraction



Manufacturing



Distribution

Cost Saving Multi-sensor/Multi-directional IP Cameras

Hanwha Vision dual-sensor multi-directional IP camera solutions eliminate the need for multi-camera installations. Each multi-sensor IP camera can be installed with a single cable and utilized with most VMS systems using just a single device recording license.



Eliminate Blind Spots with High-Resolution IP Fisheye Cameras

See a full-detail, 360° panoramic view of an entire room or area with a single camera. Fisheye cameras are a popular choice for cannabis facilities including dispensaries and cultivation facilities, as they provide excellent coverage to help eliminate blind spots and meet security requirements. Dewarping allows users to convert the fisheye image in multiple views and focus areas, resulting in cost savings as fewer cameras are required to monitor a given area.



Fisheye



Single Panorama



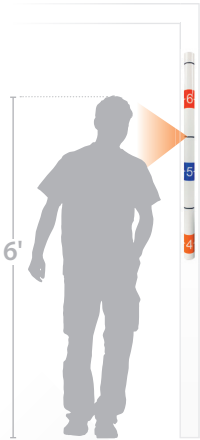
Double Panorama

Dispensary Point-of-Sale Camera Kit

Easily capture faces with this 2MP remote lens camera that features a height adjustable modern design, that allows it to blend seamlessly into customer counters and other high traffic areas.



Capture Faces Entering and Leaving your Facility



- ✓ **Pinhole height strip camera**
Pinhole height strip camera can distinguish a subject's face and height when used in conjunction with another area camera device.

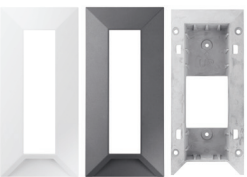
- ✓ **Door jamb lens housings**
Video surveillance products can blend seamlessly with the aesthetics of any store structure and layout. Strategically place Hanwha Vision's low-profile remote head camera lens modules and housings near entrances and exits, providing investigators and law enforcement with high-quality views of suspects' faces or any suspicious activity.



Touchless Video Intercom

Touchless video intercom systems allow fluid interaction between staff and customers without the risk of encountering surface contaminants or contagions. Hanwha Vision touchless video intercoms are fully integrated into Wisenet WAVE VMS for seamless functionality and support accessories to help them blend into any environment.

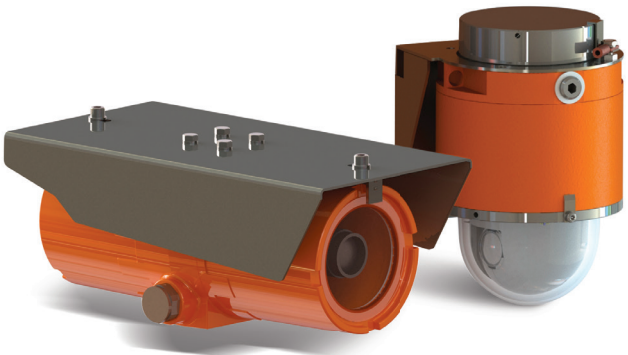
- ✓ 2MP camera with WDR for Touchless calling
- ✓ Wide field of view (HFOV: 180°, VFov: 114°)
- ✓ Built-in microphone and speaker
- ✓ Built-in IR and tamper detection



Touchless video intercom accessories

Explosion-proof Cameras for Cannabis Extraction Facilities

Extraction rooms containing flammable gases, like butane, must follow strict requirements on the types of cameras that can be installed. Our custom fitted explosion-proof housings are capable of operating safely in areas where traditional camera device designs may be unsuitable or pose a risk to safety.



- ✓ Up to 4K/8MP resolution
- ✓ Class 1 Division 1 rated for compliance in cannabis extraction facilities
- ✓ Sealed 316L stainless steel metal construction
- ✓ IP66/67 ingress protection rating
- ✓ Onboard advanced video analytics

Wisenet AI-enabled Cameras

Hanwha Vision cameras equipped with AI-based analytics can accurately identify both humans and vehicles. Being able to differentiate and identify objects as humans or vehicles leads to faster and more efficient forensic searches as well as a reduction in bandwidth and storage through metadata tagging.

Indoor Flush Mount Dome



Indoor Vandal Dome



Outdoor Vandal Dome



IR Bullet

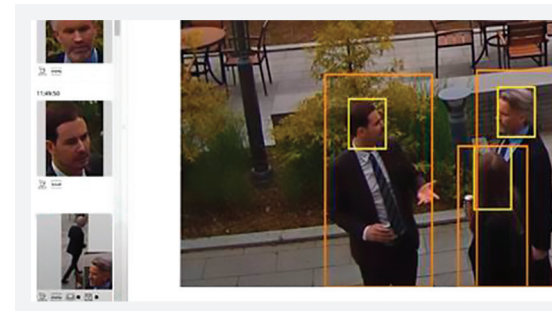


IR Outdoor Muti-sensor Dome



BestShot Feature

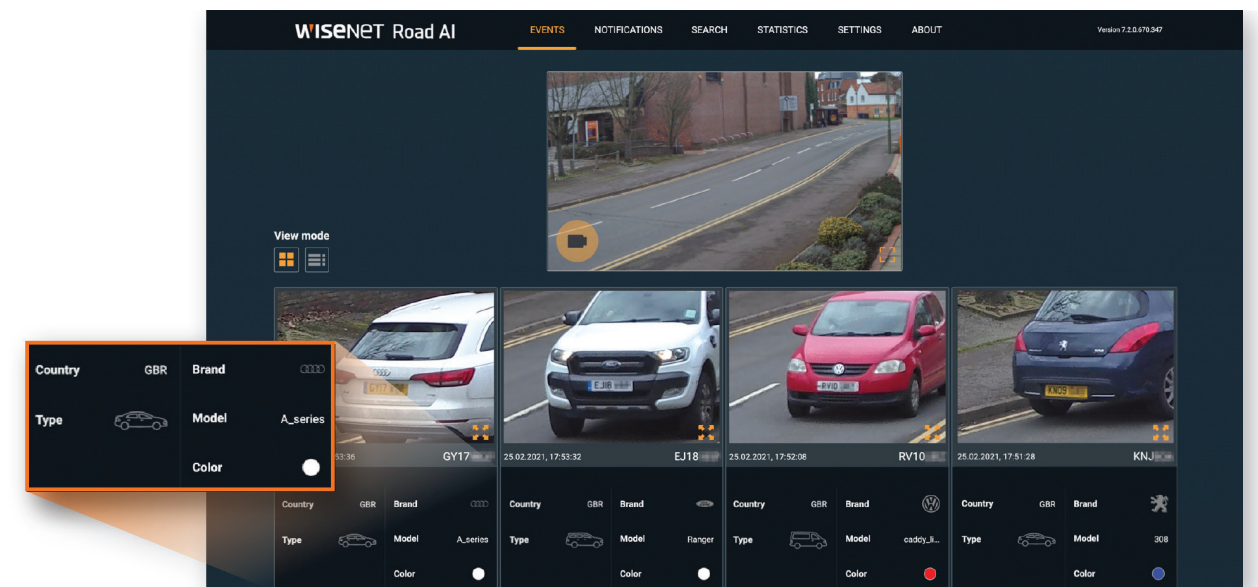
All extracted attributes are presented in real time via Hanwha Vision's BestShot feature, which displays a still image of a detected object for easy identification along with any attributes detected.



Detected Objects		Attribute Category	Supported Attribute Items
 Person	Gender	Female, Male	
	Upper garment	(Up to 2 colors simultaneously) Black, Gray, White, Red, Orange, Yellow, Green, Blue, Purple	
	Lower garment		
	Bag	Carries a bag, does not carry a bag	
 Face	Gender	Female, Male	
	Age	Young/Adult/Middle/Senior	
	Glasses	Wearing glasses, not wearing glasses	
	Face mask	Wearing mask, not wearing mask	
 Vehicle	Type	Car (sedan/SUV/van/etc.), bus, truck, motorcycle, bicycle	
	Color	(Up to 2 colors simultaneously) Black, Gray, White, Red, Orange, Yellow, Green, Blue, Purple	
 License plate	License plate	Presence of a license plate	

Wisenet Road AI LPR Cameras (License Plate Recognition)

Enhance your facility's security by logging vehicles by license plate number as they enter and exit parking or restricted areas. Hanwha Vision cameras with license plate recognition (LPR) technology are completely operational out of the box and fully integrated into Wisenet WAVE VMS and other popular video management systems and access control solutions.



- ✓ Camera sends vehicle license plate information to video management system or access control solution
- ✓ Data can be used to produce VMS bookmarks for later review
- ✓ Simple to install and automate



Wisenet WAVE VMS

Simple. Scalable. Powerful.

Hanwha Visions lightweight, scalable, and feature rich video management is capable of supporting up to 128 IP video streams per server and is fully integrated with Wisenet NVRs and IP camera video and audio analytics.



- ✓ **Easy setup** – complete system install and configuration in minutes
- ✓ **Flexibility** – drag and drop interface with resizable viewing panes for intuitive navigation
- ✓ **Compatibility** – full integration with SUNAPI 2.0 Wisenet device features and advanced analytics and other popular 3rd party security solutions
- ✓ **Reliability** – robust server hive architecture ensures continuous system uptime
- ✓ **Portability** – accessible from anywhere via WAVE Sync with mobile client applications
- ✓ **Accessibility** – add an unlimited number of users to a single system, each with custom or preset roles

SUPPORTED BROWSERS	SUPPORTED DESKTOP OS	SUPPORTED MOBILE OS	SUPPORTED SERVER OS

Wisenet SKY Cloud VMS

Traditional video security systems require substantial amounts of hardware, complicated installations and constant software maintenance and management. Wisenet SKY Cloud VMS offers users enterprise-level performance with easy deployment, remote management, and seamless integration with third party systems.

Max Cameras	250,000 per account
Max Users	25,000 per account
Simultaneous Live Viewers	100 per camera
Max Resolution	Up to 10MP
Max Locations	10,000 per account

OPTIONAL ANALYTICS

Line crossing

Object counting

Intrusion detection

Loitering

Tamper detection



Quick Deployment, Secure Access

The Wisenet SKY Cloud VMS does not require open ports, allowing only outbound connections to the Wisenet SKY Cloud. Business owners can rest assured that their business is always secure and accessible from anywhere in the world.

- ✓ **Single Sign-On**

✓ **Two-factor Authentication**

✓ **Video Encrypted at Rest and in Transit**

✓ **Camera Isolation**
- ✓ **Privacy Mode**

✓ **Support PIN Verification**

✓ **Customizable Password Rules**

✓ **Key Management**

Maximum Flexibility

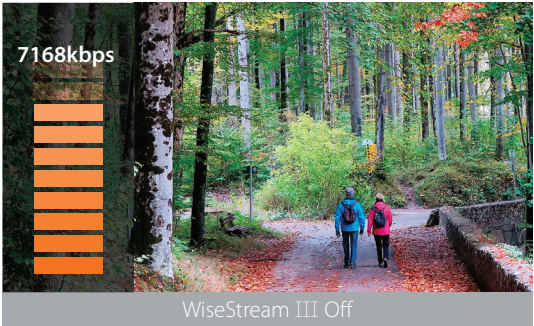
Wisenet SKY supports thousands of IP and analog camera models, allowing you to leverage any new or existing infrastructure. Custom retention policies and hybrid cloud options allow you to pay only for what you need while our open source API and SDK allow you to add additional functionality to your system via 3rd party integrations.

COMPATIBLE BROWSERS	AVAILABLE MOBILE APPS	COMPATIBLE CAMERAS
		Wisenet ONVIF profile S
CUSTOM CLOUD RETENTION OPTIONS		CUSTOM INTEGRATION
1 day to up to 5 years of cloud storage Hybrid cloud + on-premises storage		API SDK

WiseStream III

Using edge-based AI object detection to identify humans and vehicles, Hanwha Vision's WiseStream III video compression technology ignores motion created by non-human and non-vehicle objects detected in the camera's field of view. This results in substantially decreased data transmission sizes from the camera over traditional motion detection based compression technologies, without losses in video quality.

Humans detected



Portions of video of and around objects detected as humans will remain crisp and clear.

Vehicle detected



Portions of video of and around objects detected as vehicles will remain crisp and clear.

No humans or vehicles detected



Video of motion created by non-human and non-vehicle objects is compressed to reduce storage and bandwidth usage.

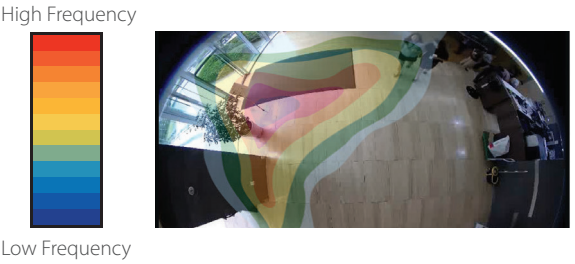
Hanwha Vision IP camera features and onboard advanced video and audio analytics

Hanwha Vision's license-free intelligent video and audio analytics technology operates on the edge, alerting operators to abnormal activities in real time. This increase in situational awareness can help to prevent or minimize damage or harm during an event by prompting a rapid and efficient response.

Business Analytics



People counting – Provides statistical information based on individuals detected entering or exiting pre-defined areas.



Heat Map – Evaluates retail traffic based on visitor density and length of stay.



Queue Management – Alleviates long check-out lines by alerting staff when customers are waiting for longer than user-defined amounts of time.

Intelligent Video & Audio Analytics

-  **Face detection** - Identifies key facial features and issues alerts when a face is present
-  **Virtual line crossing detection** - Triggers an alarm when objects are detected crossing a pre-defined virtual line or perimeter.
-  **Loitering detection** - Triggers an event when an object enters and rests in a designated virtual zone
-  **Intrusion detection** - Triggers an event when movement is detected in a designated virtual zone
-  **Appear/disappear detection** - Detects the appearance or disappearance of an item in a designated virtual zone
-  **Enter/exit detection** - Detection of objects entering or exiting a designated area

Audio analytics - Detects and identifies the sound of explosions, gunshots, screams, and breaking glass

-  Gunshot
-  Glass Break
-  Scream
-  Explosion

*Camera features and analytics vary by model

For more information visit us at
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