



Solutions Built for Retail



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Hanwha Vision is continually updating and expanding the versatility of its retail surveillance solutions to stay ahead of changing industry trends, providing store operators with everything they need – before, during and long after the sale.

Retailers can use our technologies for more than security. They can enhance customer service by comparing traffic patterns against staffing levels, ensuring store procedures are followed and monitoring customer service issues. Intelligent video surveillance technologies can help store staff enforce safety measures and procedures, improve employee time management and analyze customer traffic patterns to ensure merchandise is visible and properly displayed.

Hanwha Vision's end-to-end intelligent video surveillance options combine image quality and performance with data-driven analytics to give retailers real-time, valuable business intelligence.

From the checkout lines, entrances, exits and aisles to stock rooms, staff areas, loading docks and parking lots, Hanwha security and surveillance products can be customized for any environment, helping retailers save money, manage assets, reduce risk and deter crime.

Hanwha Vision's retail solutions are designed to monitor and evaluate every aspect of your operations, keep employees and customers safe and increase efficiency today – and tomorrow.



Specialty Devices and Camera Kits for Retail Environments

Hanwha Vision's specialty devices include discreet camera housings and kits that fit any retail environment. They integrate easily with our public view monitors to provide an active crime deterrent and generate real-time visual evidence of theft or fraud.

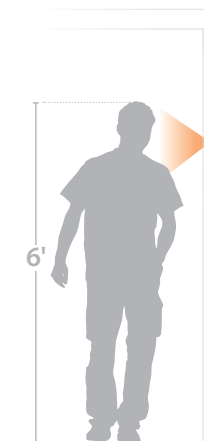
Public View Monitors and Camera Kits

Hanwha Vision public view monitors and camera kits assist in actively deterring retail crime while providing business data and intelligence. Overt on-screen analytics such as face and motion detection are overlaid on top of surveillance video from a discreetly mounted 2MP IP camera. Other options include customized on-screen messaging to indicate a recording is in progress or to display advertising banners.

✓ Face detection display for visual deterrent

✓ Customizable text overlays*

*PVM monitors only



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 must blend seamlessly with the aesthetics of any store structure and layout. You can 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. They are available with flush-mount housings, door mullion lens and multiple color options.



Complete Retail Solutions

Hanwha Vision's video surveillance technologies can help protect every area of your retail location, boost operational efficiency and deliver deep insights into your business with a full suite of license-free business and video analytics.

Showrooms/End Caps

- Flexible camera options for changing layout and lowering cost of ownership
- Remotely adjustable camera fields of view – even after installation is complete
- Available in 2MP and 5MP models with modular designs for easy upgrades



Entrances/Exits

- Specialty camera solutions blend into any environment without missing critical information
- Public viewing monitors assist in actively deterring retail crime
- Industry-leading low-light performance with wide dynamic range capabilities
- Equipped with intelligent business analytics including people counting



Parking Lots/Loading Zones

- Monitor and capture wide areas with a single multi-sensor panoramic camera installation
- License plate recognition technology for monitoring parking lots, garages and loading docks
- Equipped with loitering detection analytics
- Durable vandal-resistant dome and bullet-style cameras also available

Loss Prevention/Command Center

- View forensic evidence from anywhere with an internet connection with scalable IP video management and NVR solutions
- Network and analog digital video recorders store video data onsite
- Analog video encoders for live viewing or use with popular VMS solutions



Warehouse/Storage Rooms

- Keep staff and inventory safe under all conditions with durable camera solutions
- Multi-sensor devices monitor several areas with a single camera installation
- Covert cameras provide clear images even in challenging lighting



Sales Floor

- Easily view entire store floor with a single high-resolution fisheye camera
- Compact dome cameras maintain aesthetics
- Micro-PTZ cameras can discreetly follow subjects of interest
- License-free video and audio analytics easily monitor activity in multiple areas

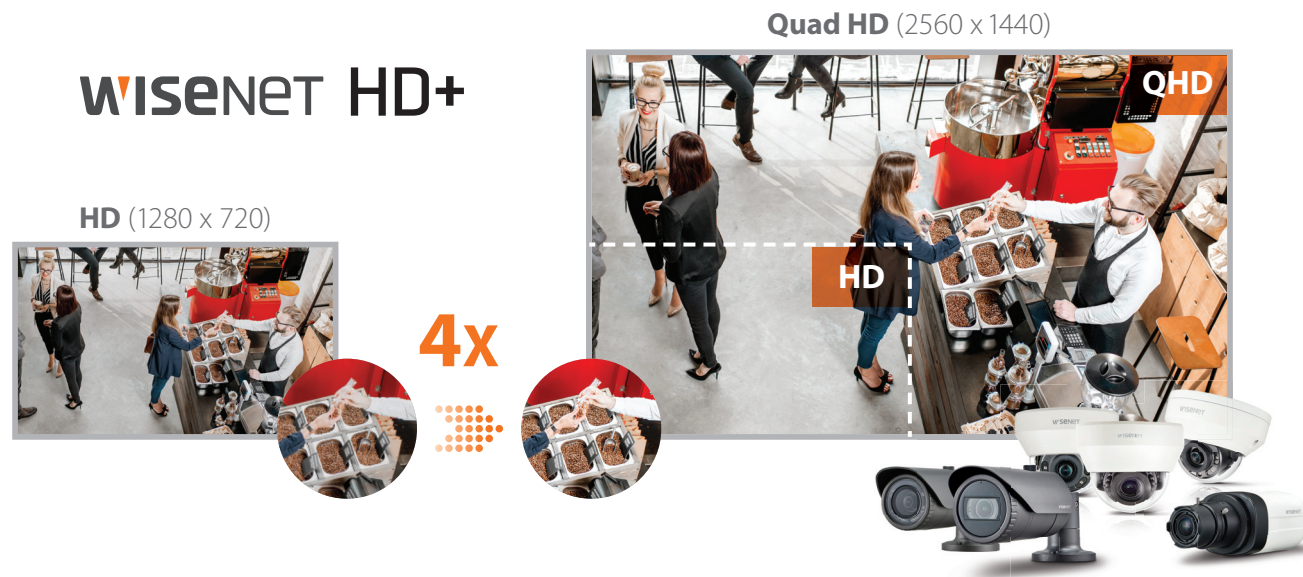


Checkout Counters/Customer Service

- View two areas with a single dual-head, multi-sensor camera installation
- Discreet and low-profile camera designs
- Queue management analytics alert managers and staff to long lines

HD+ Analog Cameras

Avoid the costly conversions usually associated with upgrading to the latest network-based surveillance technology. Hanwha Vision's line of HD+ camera devices bring new life to aging analog infrastructures by providing HD and QHD resolutions, giving you future-proof products -- today.



IP Video Decoders and Encoders

Hanwha Vision's decoder and encoder appliances add network-based recording and monitoring features to analog infrastructures, giving retailers the best of both worlds in one device.

Decoders



Simultaneously decode up to 49 video streams in resolutions up to 12MP then output them to as many as three monitors over an HDMI, VGA, or BNC connection.



Encoders

Our 16-channel encoder with dual-codec support for H.264 and MJPEG is compatible with existing analog formats as well as common interfaces for use with PTZ-controlled camera devices. The camera output can be recorded on conventional IP-based NVR and VMS solutions.

License-free Analytics

Gain deeper insights into your store's performance by creating customized analytics zones and event-based alarms. Hanwha Vision includes license-free business, video, and audio analytics on many of its IP camera products.

Business Analytics



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

High Frequency



Low Frequency

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*