Hanwha Techwin

Optimised **Retail Solutions**

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Hanwha Techwin 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 analyse customer traffic patterns to ensure merchandise is visible and properly displayed.

Hanwha Techwin'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 customised for any environment, helping retailers save money, manage assets, reduce risk and deter crime.

Hanwha Techwin'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 Techwin'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 Techwin 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 customised on-screen messaging to indicate a recording is in progress or to display advertising banners.
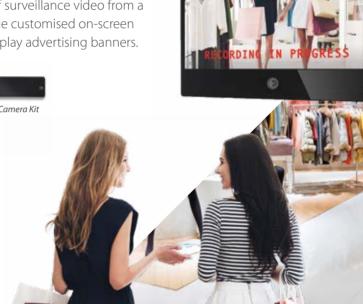
✓ Face detection display for visual deterrent

✓ Customisable text overlays*

*PVM monitors only

Camera Kit

SMT-3230PV – 32" PVM   SMT-2730PV – 27" PVM   SMT-1030PV – 10" PVM

6'

✓ **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.

Complete Retail Solutions

Hanwha Techwin'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 licence-free business and video analytics.

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
- Wisenet Wave - intuitive and easy to use open platform Video Management System

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

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
- Intruders can accurately be detected using AI cameras - no more false alarms.
- Thermal cameras for intruder detection even in complete darkness

Entrances/Exits

- Specialty camera solutions blend into any environment without missing critical information
- Public viewing monitors assist in actively deterring retail crime
- Industry-leading Local Contrast Enhancement (LCE) technology with wide dynamic range capabilities
- Intelligent video & audio analytics including people counting, face mask detection, occupancy monitoring, loitering and intrusion detection as well as sound classification
- **Coming soon!**
  - IP video intercom entry station with touchless call function
  - IP audio management system

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
- Licence-free video and audio analytics easily monitor activity in multiple areas

Car Parks/Loading Zones

- Monitor and capture wide areas with a single multi-sensor panoramic camera installation
- Licence plate recognition technology for monitoring parking lots, garages and loading docks
- Serverless ANPR solution, cost effective and easy to set up
- Equipped with loitering detection analytics
- Durable vandal-resistant dome and bullet-style cameras also available
- **Coming soon!**
  - Parking Guidance Camera
  - ANPR with Make Model Colour Recognition (MMCR)

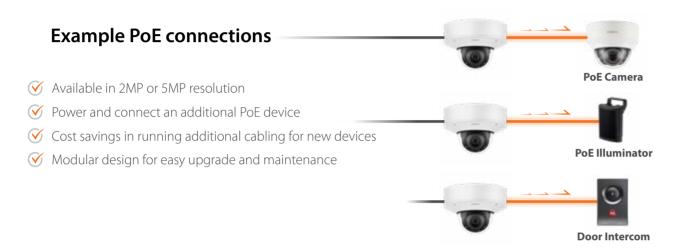## Checkout Counters/Customer Service

- 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

Wisenet X series PoE extender cameras

Each Wisenet X series PoE extender camera is equipped with a secondary network port, allowing you to power and connect an additional PoE or network device at distances of up to 80m away - saving you time and money on long cabling and installation runs traditionally associated with connecting additional devices to your network. Power and connectivity to the secondary network port can then be monitored and controlled in real time from the camera's web user interface.

Example PoE connections

PoE Camera

PoE Illuminator

Door Intercom

- ✓ Available in 2MP or 5MP resolution
- ✓ Power and connect an additional PoE device
- ✓ Cost savings in running additional cabling for new devices
- ✓ Modular design for easy upgrade and maintenance

IP Video Decoders and Encoders

Hanwha Techwin'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.
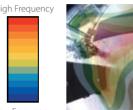
Licence-free Analytics

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

Edge Based Retail Analytics

High Frequency

Low Frequency

People counting & occupancy monitoring – 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.

Female 25-30

Male 30-35

Age/Gender Analytics – Compare gender and age statistics across locations/times of day. Retailers can target marketing efforts at the demographic segments likely to visit in certain areas and at certain times.

Face Mask detection – Control adherence to health & safety measures.

Social distancing monitoring – Helping ensure a safe distance between people is being respected.

Intelligent Video & Audio Analytics

Face detection - Identifies key facial features and issues alerts when a face is present.

Intrusion detection - Triggers an event when movement is detected in a designated virtual zone.

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

Virtual line crossing detection - Triggers an alarm when objects are detected crossing a pre-defined virtual line or perimeter.

Appear/disappear detection - Detects the appearance or disappearance of an item in a designated virtual zone.

Gunshot   Glass Break   Scream   Explosion

Loitering detection - Triggers an event when an object enters and rests in a designated virtual zone.

Enter/exit detection - Detection of objects entering or exiting a designated area.

Camera features and analytics vary by model