See more with a single camera

Wisenet P series multi-sensor/multi-directional and multi-sensor/panoramic cameras allow more effective monitoring of wide areas using a single camera device. Being able to use a single device results in a reduction of installation and maintenance costs while eliminating camera blind spots.

Natural and clear imaging

Multi-sensor/multi-directional cameras avoid the image distortion associated with using fisheye-lensed cameras, producing clearer and sharper full-frame images.

Cost-savings in camera installation and device management

An inherent benefit of using multi-sensor cameras is a reduction in time and cost associated with large multi-camera installations. Using a single cable and IP address, and often only a single recording license per multi-sensor device for many VMS applications, reduces the need for additional onsite technician hours and materials associated with executing multiple single-sensor camera installations in the same area.
Multi-sensor/multi-directional cameras

The sensors in Wisenet P series multi-sensor/multi-directional cameras move independently, enabling each device to monitor up to a complete 360° field of view and multiple locations without blind spots.

- ✓ 4-channel multi-sensor/multi-directional cameras
- ✓ 3-channel multi-sensor/multi-directional cameras
- ✓ 2-channel multi-sensor/multi-directional cameras
AI-enabled multi-sensor/multi-directional cameras

Wisenet AI Object Classification can be used to classify detected objects as humans, faces, vehicles, or license plates. This aids in the reduction of false alarms caused by traditional motion detection. Detected objects that are classified are then saved as searchable metadata for use in forensic review.

Reducing false alarms with AI object classification

Wisenet AI can detect and classify objects as people, vehicles, faces, license plates in real-time. This assists in reducing false alarms caused by motion such as wind-blown trees, shadows, or animals and assists investigators during forensic review with metadata tagging.

BestShot Feature

Hanwha Techwin’s BestShot feature displays a still image of a detected object along with object classification data for easy identification.

<table>
<thead>
<tr>
<th>Object Classification</th>
<th>Detection Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person</td>
<td>Presence of a person</td>
</tr>
<tr>
<td>Face</td>
<td>Presence of a face</td>
</tr>
<tr>
<td>Vehicle</td>
<td>Presence of a vehicle and vehicle type: car (sedan/SUV/van/etc.), bus, truck, motorcycle, or bicycle</td>
</tr>
<tr>
<td>License plate</td>
<td>Presence of a license plate</td>
</tr>
</tbody>
</table>
PTRZ enabled multi-sensor/multi-directional cameras

Wisenet P series PTRZ multi-sensor/multi-directional cameras provide remote FoV adjustment via the camera’s web user interface or Wisenet Installation App, saving time spent on installation.

Dynamic built-in IR illumination

On multi-sensor/multi-directional PTRZ cameras equipped with IR, each IR illuminator moves together with a connected lens when FoV changes are made, producing clear images up to 30 meters away, even in low-light environments.
Multi-sensor/multi-directional cameras with PTZ

The PNM-9322VQP is a 5-channel camera that combines a 4-channel multi-sensor/multi-directional camera with a 2MP 32x PTZ camera. This allows it to monitor up to a 360° FoV while the PTZ camera zooms in to desired areas for closer inspection. The included HPoE injector is equipped with a 100/1000 SPF slot to maintain connections over long distances.

Advanced handover to PTZ

The advanced PTZ handover functionality present in the PNM-9322VQP allows you to create unique monitoring scenarios and event responses.

Interchangeable Lens Options

2MP and 5MP interchangeable lenses are available in a variety of focal lengths to help you customize the PNM-9322VQP to meet the needs of your environment.
Multi-sensor/panoramic cameras
By seamlessly stitching four images into a single panoramic picture, multi-sensor/panoramic cameras provide a wide, panoramic field of view using a single camera.

Multiple view modes
When using multi-sensor/panoramic cameras, users can choose to view a single panoramic image from the camera or crop portions of the image to be viewed separately.

✅ Single panoramic

✅ Single panoramic + cropped images
Multi-sensor/remote-head cameras

Wisenet P series 4-channel remote head cameras allow users to employ covert and low profile lenses, housings, and specialty kits to preserve the aesthetic of your environment without sacrificing coverage. These accessories include kits built for retail, banking, and other customer-facing spaces.

- 4CH x 2MP resolution
- Specialty camera kits
- Multiple lens options
- Covert housing accessories
Reduce bandwidth by up to 75% using WiseStream III

By utilizing AI-based object detection, WiseStream III technology adjusts the video encoder to focus video quality on detected objects in a scene while scaling back encoding on the rest of the scene. This results in decreased overall bandwidth usage and reduced storage costs while maintaining accurate video data.

True WDR

WDR uses scene analysis technology to optimize differences such as tone and contrast during frame synthesis to minimize motion artifacts. In addition, local contrast enhancement technology, which emphasizes high frequency areas systematically, improves the detail and clarity of images, even in strong backlight environments.
**Hallway View mode**

In corridors, hallways, tunnels, or aisles, traditional horizontal shaped fields of view focus on unnecessary edges in an area of interest, creating bandwidth and storage waste. In Hallway view, 3:4 and 9:16 aspect ratio are utilized to maximise image quality in narrow locations.

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### Optimized for indoor and outdoor environments

Wisenet P series multi-sensor/panoramic and multi-sensor/multi-directional cameras are rated for IP66 ingress protection and IK10 impact ratings, making them ideal for both indoor and outdoor applications such as warehouses, shopping mall entrances, train stations, parking lots.
Hanwha Techwin IP camera features and onboard advanced video and audio Analytics

Hanwha Techwin’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.

**Camera Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamper detection</td>
<td>Detects when a camera’s direction is changed due to impact, sudden loss of focus, painting or blockage</td>
</tr>
<tr>
<td>Image stabilization</td>
<td>Cameras can detect shaking or vibration and digitally stabilize the image</td>
</tr>
<tr>
<td>Fog detection</td>
<td>Cameras can detect the presence of fog or steam and automatically improve image quality</td>
</tr>
<tr>
<td>HLC</td>
<td>Low light feature that blocks sources of intense light such as vehicle headlights in order to maintain a clear image</td>
</tr>
<tr>
<td>PTZ handover</td>
<td>Strategically placed cameras can be used to trigger PTZ presets, patrol patterns, and target tracking based on detected events</td>
</tr>
</tbody>
</table>

**Intelligent Video & Audio Analytics**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face detection</td>
<td>Identifies key features of a human face and issues an alert when a face is present</td>
</tr>
<tr>
<td>Virtual line crossing detection</td>
<td>Objects crossing a designated virtual line can be detected</td>
</tr>
<tr>
<td>Loitering detection</td>
<td>Objects appearing and resting in a designated virtual zone will trigger an event</td>
</tr>
<tr>
<td>Intrusion detection</td>
<td>Triggers an event when movement is detected in a designated virtual zone</td>
</tr>
<tr>
<td>Appear/disappear</td>
<td>Detects the presence or loss of an item in a designated virtual zone</td>
</tr>
<tr>
<td>Enter/exit detection</td>
<td>Detection of objects entering or exiting a designated area</td>
</tr>
<tr>
<td>Audio detection</td>
<td>Detects and identifies the sound of explosions, gunshot, screams, and breaking glass</td>
</tr>
</tbody>
</table>

*Camera features and analytics vary by model*
For more information visit us at

HanwhaSecurity.com