Wisenet P Series
Premium 4K Ultra HD
Hanwha Techwin enhances its legacy in video surveillance with Wisenet P Series. Featuring 12MP resolution, H.265 codec, WiseStream technology, PTZ hand-over and advanced video analytics, see why Wisenet P Series is the ideal solution for retail, transportation, banking, corporate facilities and education.

**Features**

- Max. 12MP resolution
- Triple Codec H.265/H.264/MJPEG
- Max. 20fps@12MP, Max. 30fps @ 4K (Bullet, Dome)
- Max 20fps @12MP, Max 25fps @ 9MP (4k Fisheye)
- WiseStream technology
- True WDR (120dB)
- Hallway view (Rotate 90°/270°)
- Defog, motion detection, defocus detection, tampering
- Video analytics (enter/exit, appear/disappear, virtual line)
- PTZ hand-over feature

**Complete line-up of indoor and outdoor cameras**

Wisenet P is available in bullet, dome, and fisheye form factors.

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**Improved bandwidth with WiseStream technology**

The streaming performance of our new Wisenet series cameras is greatly enhanced through WiseStream, Hanwha Techwin’s advanced compression technology. WiseStream significantly reduces bandwidth consumption when used with Dynamic GoV control technology. When WiseStream and H.265 are used together, further reductions can be achieved compared with H.264 video compression.

**120dB True Wide Dynamic Range & P-Iris**

True Wide Dynamic Range improves images in high-contrast environments while P-Iris control sets the optimal iris position to reduce optical errors and to maximize image quality.
PTZ Hand-Over

Hanwha’s unique PTZ hand-over feature allows an IP PTZ camera to receive an alarm trigger from a fixed camera on the same IP video surveillance system. Once the notification is received, the PTZ camera will zoom into the assigned camera pre-set location. This feature improves the efficiency of the surveillance system by decreasing the reliance on the system operator to track events, and by increasing the likelihood that critical events in a surveillance area will be captured and recorded.

Defocus Detection

The entire Wisenet P series cameras feature defocus detection. If a camera goes out of focus, an alarm notification will be sent to users, allowing them to adjust camera focus.

People Counting & Heatmap Function (4K Fisheye)

Our P Series fisheye cameras supports license-free People Counting business analytics. This feature supports data search, report and graph function.
**Simple Focus (4K Fisheye)**

Premium fisheye series supports Simple Focus which is useful during installation. Manual focus is not necessary, just a simple click of the icon is needed to focus the camera.

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**On-board Advanced Video Analytics**

- **Virtual Line Detection**
- **Enter / Exit Detection**
- **Appear / Disappear Detection**

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### Video Specifications

#### Imaging Device
- PNO-9080R: 1/1.7" 12.4M CMOS
- PND-9080R: 1/1.7" 12.4M CMOS
- PNV-9080R: 1/1.7" 12.4M CMOS
- PNF-9010R/9010RV/9010RVM: 1/1.7" 12.4M CMOS

#### Resolution
- PNO-9080R: 12MP
- PND-9080R: 12MP
- PNV-9080R: 12MP
- PNF-9010R/9010RV/9010RVM: 12MP

#### Video Compression Format
- H.265, H.264, MJPEG

#### Resolution / Frame Rate
- **PNO-9080R**
  - 12M / 20fps, 8M / 30fps
- **PND-9080R**
  - 12M / 20fps, 8M / 30fps
- **PNV-9080R**
  - 12M / 20fps, 9M / 25fps
- **PNF-9010R/9010RV/9010RVM**
  - 12M / 20fps, 9M / 25fps

#### Streaming Capacity
- Multiple (Up to 3 profiles)

#### Max. User Access
- 20 (Unicast)

#### Min. Illumination (30 IRE)
- **Color**
  - PNO-9080R: 0.3Lux
  - PND-9080R: 0.3Lux
  - PNV-9080R: 0.3Lux
  - PNF-9010R/9010RV/9010RVM: 0.3Lux
- **B/W (IR LED on)**
  - PNO-9080R: 0Lux
  - PND-9080R: 0Lux
  - PNV-9080R: 0Lux
  - PNF-9010R/9010RV/9010RVM: 0Lux

#### Lens
- PNO-9080R: 4.5 ~ 10mm (2.2x) Motorized V/F (F1.6)
- PND-9080R: 4.5 ~ 10mm (2.2x) Motorized V/F (F1.6)
- PNV-9080R: 4.5 ~ 10mm (2.2x) Motorized V/F (F1.6)
- PNF-9010R/9010RV/9010RVM: 2.1mm fixed (F2.2)

#### Angular Field of View
- **[4096 x 2160]**
  - H: 100.3˚(Wide) ~ 45.6˚(Tele) / V: 49.7˚(Wide) ~ 24.0˚(Tele)
- **[3840 x 2160]**
  - H: 92.3˚(Wide) ~ 42.6˚(Tele) / V: 49.7˚(Wide) ~ 24.0˚(Tele)
- **[4096 x 2160]**
  - H: 100.3˚(Wide) ~ 45.6˚(Tele) / V: 49.7˚(Wide) ~ 24.0˚(Tele)
- **[3840 x 2160]**
  - H: 92.3˚(Wide) ~ 42.6˚(Tele) / V: 49.7˚(Wide) ~ 24.0˚(Tele)

#### Focus Control
- Simple focus (Motorized V/F) / Manual

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### Operational Specifications

#### IR Viewable Length
- 40m (131.23ft)

#### Pan / Tilt / Rotate
- - 0° ~ 354° / 0° ~ 67° / 0° ~ 355°

#### Day & Night
- True (ICR)

#### Backlight Compensation
- WDR (120dB)

#### Digital Noise Reduction
- SSNR

#### Intelligent Video Analytics
- Tampering (Scene change), Virtual line, Enter / Exit (Dis)Appear, Audio detection, Defocus detection, Digital auto tracking - with metadata

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### Protocol Specifications

#### ONVIF profile
- S & G, SUNAPI, SVNP, Wisenet Open Platform

#### Alarm I/O
- 1 / 1

#### Audio
- Bi-directional

#### Edge Storage
- SD/SDHC/SDXC, NAS, Local PC

#### Environment Protection
- IP66, IK10

#### Operating Temperature
- -40°C ~ +55°C (+40°F ~ +131°F) *Start up above -35°C (+31°F)

#### Power
- AC 24V (Max. 12.43W / 14.08W - Heater on)
- DC 12V (Max. 9.5W)
- PoE (Max. 10.43W / 11.55W - Heater on)

#### Dimensions (Width x Height x Depth)
- 824 x 870 x 348.3mm (3.24" x 3.43" x 13.77") (Without sunshield)
- 1.46 lbs (651g)

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### Features

- **Hallway view**, **P-Iris**, **Defog**, **WiseStream**
- Built-in mic, On board dewarping, WiseStream, Heatmap, People counting