



Network

Dome

# PNV-A9081R

Cámara de red IR Domo Antivandálico 4K con IA



## Key Features

- Resolución máxima 4K
- 0.05Lux@F1.6 (Color), 0Lux (B/N, LED IR encendido)
- Día y noche (ICR), WDR (120dB), WiseNR II (con motor AI), obturador preferido
- Códec H.265, H.264, MJPEG, WiseStream II, WiseStreamIII (utilizando el motor de IA)
- Análisis de vídeo basado en IA
- Detección y clasificación de objetos(Persona, rostro, vehículo, matrícula)
- Detección de máscara facial, detección de distanciamiento social
- Atributo, BestShot
- Estructura modular para una fácil instalación
- Requiere el firmware de la cámara v1.41.03 o posterior para utilizar la detección de máscaras faciales
- Requisitos del sistema
- SSM v2.10.8 o posterior, plugin Genetec v1.0 o posterior, plugin Milestone v1.0.2 o posterior, modelo NVR (XRN-6410DB4/B4, XRN-3210B4)

# PNV-A9081R

Cámara de red IR Domo  
Antivandálico 4K con IA



## Specifications

| Video                         |                       |                                                                                                                                                                                       |
|-------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device                | Size                  | 1/1.8"                                                                                                                                                                                |
|                               | Type                  | CMOS                                                                                                                                                                                  |
| Resolution                    |                       | 3840x2160, 3072x1728, 2688x1520, 2592x1944, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360 |
| Max. Framerate                | H.265/H.264           | 30fps/25fps(60Hz/50Hz)                                                                                                                                                                |
|                               | MJPEG                 | 30fps                                                                                                                                                                                 |
| Min. Illumination (Lux)       | Color(1/30sec, 30IRE) | 0.05                                                                                                                                                                                  |
|                               | BW(1/30sec, 30IRE)    | 0.005                                                                                                                                                                                 |
| Video Out                     |                       | CVBS: 1.0 Vp-p / 75Ω composite for installation,<br>USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.                                                       |
| Lens                          |                       |                                                                                                                                                                                       |
| Focal Length (mm)             |                       | 4.5~10                                                                                                                                                                                |
| Zoom Ratio                    | Optical               | 2.2x                                                                                                                                                                                  |
| Max Aperture Ratio (F number) | Wide                  | 1.6                                                                                                                                                                                   |
|                               | Tele                  | 2.65                                                                                                                                                                                  |
| Angular Field of View         | Horizontal            | 101.4°~45.5°                                                                                                                                                                          |
|                               | Vertical              | 53.6°~25.5°                                                                                                                                                                           |
|                               | Diagonal              | 120.7°~52.3°                                                                                                                                                                          |
| Min. Object Distance          |                       | 0.5m(1.64ft)                                                                                                                                                                          |
| Focus Control                 |                       | Simple focus                                                                                                                                                                          |
| Lens Type                     |                       | P iris(IR corrected)                                                                                                                                                                  |
| Pan / Tilt / Rotate           |                       |                                                                                                                                                                                       |
| Pan / Tilt / Rotate Range     | Pan                   | 0°~360°                                                                                                                                                                               |
|                               | Tilt                  | -45°~85°                                                                                                                                                                              |
|                               | Rotate                | 0°~355°                                                                                                                                                                               |
| Operational                   |                       |                                                                                                                                                                                       |
| Day & Night                   |                       | Auto(ICR)                                                                                                                                                                             |

## Operational

|                                          |                |                                                                                                                                                                                                                                       |
|------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Backlight Compensation                   |                | BLC, WDR, SSDR                                                                                                                                                                                                                        |
| Wide Dynamic Range (dB)                  |                | 120                                                                                                                                                                                                                                   |
| Digital Noise Reduction                  |                | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                                                |
| Digital Image Stabilization              |                | Support(built-in gyro sensor)                                                                                                                                                                                                         |
| Motion Detection                         | Quantity       | 8ea                                                                                                                                                                                                                                   |
|                                          | Shape          | 8point Polygonal zones                                                                                                                                                                                                                |
| Privacy Masking                          | Quantity       | 6ea                                                                                                                                                                                                                                   |
|                                          | Shape          | Rectangular zones                                                                                                                                                                                                                     |
|                                          | Color / Option | Gray, Black, White                                                                                                                                                                                                                    |
| Gain Control                             |                | Low, Middle, High                                                                                                                                                                                                                     |
| White Balance                            |                | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                                                                                                     |
| LDC                                      |                | Support                                                                                                                                                                                                                               |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)                                                                                                                                                            |
|                                          | Speed Range    | 1/5~1/12,000sec                                                                                                                                                                                                                       |
| Video Rotation                           |                | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                                  |
| Alarm Interface                          | In/Out         | 2 configurable I/O ports                                                                                                                                                                                                              |
|                                          | Others         | 12VDC output                                                                                                                                                                                                                          |
| Alarm Triggers                           |                | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription                                                                                                                                               |
| Alarm Events When Alarm Trigger Occurred |                | File upload(image): e-mail/FTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| Audio In                                 |                | Selectable(mic in/line in)                                                                                                                                                                                                            |
| Audio Out                                |                | Line out                                                                                                                                                                                                                              |
| Light Type                               |                | IR LED                                                                                                                                                                                                                                |
| Light Viewable Length                    | IR             | WiseIR 30m(98.42ft)                                                                                                                                                                                                                   |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                                                                 |

## Analytics

|                        |         |                                                   |
|------------------------|---------|---------------------------------------------------|
| Classified Object Type |         | Person, Face, Vehicle, License plate              |
| Attributes             | Person  | Upper/Lower clothes color, Gender, Bag            |
|                        | Vehicle | Type(car, bus, truck, motorcycle, bicycle), Color |
|                        | Face    | Age, Gender, Face mask, Glasses                   |
| Thumbnail              |         | BestShot                                          |

## Analytics

|                       |                    |                                                                                                                                                                                |
|-----------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics Events      | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Face mask detection, Social distancing detection, Slip & fall detection      |
|                       | Normal             | Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear), WiseDetector for adding custom objects |
| Business Intelligence | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting, Crowd counting                                                                                                   |

## Network

|                                   |                    |                                                                                                                                                                                                                    |
|-----------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                          |                    | Metal shielded RJ-45(10/100/1000BASE-T)                                                                                                                                                                            |
| Video Compression                 |                    | H.265/H.264: Main/High, MJPEG                                                                                                                                                                                      |
| Audio Compression                 |                    | G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz                                                                                      |
| Smart Codec                       |                    | Manual, WiseStreamIII                                                                                                                                                                                              |
| Bitrate Control                   |                    | H.265/H.264: CBR or VBR,<br>MJPEG: VBR                                                                                                                                                                             |
| Streaming                         | Unicast            | Up to 10 users                                                                                                                                                                                                     |
|                                   | Multicast          | Support                                                                                                                                                                                                            |
|                                   | Multiple Streaming | Up to 5 profiles                                                                                                                                                                                                   |
| Protocol                          |                    | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF              | S, G, T, M                                                                                                                                                                                                         |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                      |
| Direct Cloud Connection           |                    | Support                                                                                                                                                                                                            |

## Security

|                        |                                                                         |  |
|------------------------|-------------------------------------------------------------------------|--|
| OS / Firmware Protect  | Encrypted firmware, Secure boot, Signed firmware                        |  |
| User authentication    | Digest authentication, Prevent brute-force attack                       |  |
| Network authentication | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)                      |  |
| Secure Communication   | HTTPS, WSS(WebSocket Secure)                                            |  |
| Access Control         | IP-based access control                                                 |  |
| Data Protect           | Encryption credentials, Encrypt compress for live recording file export |  |
| Audit                  | Access / System / Event Log management                                  |  |
| Device ID              | Device certificate(Hanwha Vision Root CA)                               |  |
| Secure Storage         | SDcard partition encrypt(AES-256)                                       |  |
| Security Certificate   | IACS Component Security Requirements Certification (IEC 62443-4-2)      |  |

## General

|        |       |       |
|--------|-------|-------|
| Memory | RAM   | 4GB   |
|        | Flash | 512MB |

## General

|              |                    |                                 |
|--------------|--------------------|---------------------------------|
| Edge Storage | Micro SD/SDHC/SDXC | Max. 256GB x 2slot(Total 512GB) |
|--------------|--------------------|---------------------------------|

## Environmental & Electrical

|                     |             |                                        |
|---------------------|-------------|----------------------------------------|
| Operating Condition | Temperature | -50°C~+55°C(-58°F~+131°F)              |
|                     | Humidity    | 0~90% RH(non-condensing)               |
|                     | Others      | Start up should be done at above -30°C |
| Storage Condition   | Temperature | -50°C~+60°C(-58°F~+140°F)              |
|                     | Humidity    | 0~90% RH(non-condensing)               |
| Input Voltage       |             | PoE+(IEEE802.3at, Class4), 12VDC       |
| Power Consumption   | PoE         | Max 20.00W, typical 17.00W             |
|                     | 12VDC       | Max 18.70W, typical 15.00W             |

## Mechanical

|                         |                                    |
|-------------------------|------------------------------------|
| Color                   | White                              |
| Material                | Aluminum                           |
| RAL Code                | RAL9003                            |
| Product Dimensions      | Ø180x125mm(7.09x4.92")             |
| Product Weight          | 1,900g(4.19lb)                     |
| Compatible Conduit Hole | 19.1mm(3/4")(M25)                  |
| Compatible Gang Box     | Single, Double, 4" Octagon, Square |

## DORI (EN62676-4 standard)

|                           |      |                  |
|---------------------------|------|------------------|
| Detect (25PPM/ 8PPF)      | Wide | 62.2m(204.04ft)  |
|                           | Tele | 185.4m(608.31ft) |
| Observe (63PPM/ 19PPF)    | Wide | 24.9m(81.62ft)   |
|                           | Tele | 74.2m(243.32ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 12.4m(40.81ft)   |
|                           | Tele | 37.1m(121.66ft)  |
| Identify (250PPM/ 76PPF)  | Wide | 6.2m(20.40ft)    |
|                           | Tele | 18.5m(60.83ft)   |

PNV-A9081R

Cámara de red IR Domo  
Antivandálico 4K con IA



CAD

Unit: mm [inch]

