



Network

BOX

# PNB-A6001

Câmera AI tipo Box de 2MP



## Key Features

- Resolução máxima de 2 MP, até 120 fps
- 0.006Lux@F1.2, 1/30seg. (Color), 0.0006Lux@F1.2, 1/30seg. (B/N)
- dia e noite (ICR), WDR (120 dB), WisemR II (com motor AI)
- H.265, H.264, MJPEG, WiseStream II, WiseStreamIII (Utilizando motor de IA)
- Análise de vídeo baseado em IA
- Detecção e cassificação de objetos (pessoa, face, veículo, pacas).
- Detecção de másfaces faciais, Detecção de distânciamemto social
- Atributo, BestShot
- TPM com FIPS 140-2 nivo2, modo de segurança, verificação de falsificação de firmware
- Requisitos do sistema
- SSM v2.10.8 ou superior, plugin Gemetec v1.0 ou superior, plugin Milestone v1.0.2 ou superior, modo NVR (XRN-6410DB4/B4, XRN-3210B4)

# PNB-A6001

Câmera AI tipo Box de 2MP



## Specifications

| Video                       |                       |                                                                                                                                 |
|-----------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device              | Size                  | 1/2"                                                                                                                            |
|                             | Type                  | CMOS                                                                                                                            |
| Resolution                  |                       | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360                        |
| Max. Framerate              | H.265/H.264           | 120fps/100fps(60Hz/50Hz)                                                                                                        |
|                             | MJPEG                 | 15fps                                                                                                                           |
|                             | Others                | Max. 60/50fps(60Hz/50Hz) when AI on                                                                                             |
| Min. Illumination (Lux)     | Color(1/30sec, 30IRE) | 0.006                                                                                                                           |
|                             | BW(1/30sec, 30IRE)    | 0.0006                                                                                                                          |
| 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                        |                       |                                                                                                                                 |
| Focus Control               |                       | Simple focus                                                                                                                    |
| Lens Type                   |                       | DC auto iris, P iris(IR corrected), Manual, I-CS                                                                                |
| Mount Type                  |                       | C mount, CS mount                                                                                                               |
| Operational                 |                       |                                                                                                                                 |
| Day & Night                 |                       | Auto(ICR)                                                                                                                       |
| 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                                                                                               |

## Operational

|                                          |             |                                                                                                                                                                                                                                       |
|------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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°)                                                                                                                                                                                                  |
| Serial Interface                         |             | RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)                                                                                                                                                              |
| 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), Built-in mic                                                                                                                                                                                              |
| Audio Out                                |             | Line out                                                                                                                                                                                                                              |

## 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 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                                                                                                              |

## Network

|                                   |        |                                                                                                                                                                                                                    |
|-----------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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), SRTP                                                                 |
| 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         |  | TPM(Trusted platform module), SDcard partition encrypt(AES-256)                                    |
| Security Certificate   |  | TPM 2.0 with FIPS 140-2 level2, IACS Component Security Requirements Certification (IEC 62443-4-2) |

## General

|              |                    |                               |
|--------------|--------------------|-------------------------------|
| Memory       | RAM                | 4GB                           |
|              | Flash              | 512MB                         |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 512GB x 2slot(Total 1TB) |

## Environmental & Electrical

|                           |             |                                  |
|---------------------------|-------------|----------------------------------|
| Operating Condition       | Temperature | -10°C~+55°C(+14°F~+131°F)        |
|                           | Humidity    | 0~90% RH(non-condensing)         |
| 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 17.5W, Typical 13.7W         |
|                           | 12VDC       | Max 14W, Typical 10.6W           |
| Power Redundance Failover |             | Support                          |

## Mechanical

|                    |  |                              |
|--------------------|--|------------------------------|
| Color              |  | Black                        |
| Material           |  | Aluminum                     |
| Product Dimensions |  | 81x67x165mm(3.19x2.64x6.48") |
| Product Weight     |  | 880g(1.94lb)                 |

PNB-A6001

C  mera AI tipo Box de 2MP



CAD

Unit: mm [inch]

