



Network

Корпусные

# XNB-8003

6MP AI Box Camera



## Key Features

- 6MP resolution
- Color: 0.03 Lux (F1.2, 1/30sec, 30IRE), BW: 0.003 Lux (F1.2, 1/30sec, 30IRE)
- Maximum 30 fps (H.265/H.264)
- Day & Night (ICR), extremeWDR (120dB)
- WiseNR II (Based on AI engine), WiseStreamIII (Based on AI engine)
- Analytics events based on AI engine (NPU) : Object detection (Person/Face/Vehicle - car, truck, bus, bicycle, motorcycle/License plate),  
IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion)
- Analytics events : Defocus detection, Motion detection, Tampering, Fog detection  
Audio detection, Sound classification, Shock detection, Appear/Disappear

## XNB-8003

6MP AI Box Camera



### Specifications

| Video                       |                       |                                                                                                                                                                          |
|-----------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device              | Size                  | 1/1.8"                                                                                                                                                                   |
|                             | Type                  | CMOS                                                                                                                                                                     |
| Resolution                  |                       | 3328x1872, 3072x1728, 2688x1520, 2592x1944, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate              | H.265/H.264           | 30fps/25fps(60Hz/50Hz)                                                                                                                                                   |
|                             | MJPEG                 | 30fps(@6MP Max. 5fps)                                                                                                                                                    |
| Min. Illumination (Lux)     | Color(1/30sec, 30IRE) | 0.03                                                                                                                                                                     |
|                             | BW(1/30sec, 30IRE)    | 0.003                                                                                                                                                                    |
| 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, HLC, 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)                                                                                                                                            |
| Defog                       |                       | Support                                                                                                                                                                  |
| Motion Detection            | Quantity              | 8ea                                                                                                                                                                      |
|                             | Shape                 | 8point Polygonal zones                                                                                                                                                   |
| Privacy Masking             | Quantity              | 32ea                                                                                                                                                                     |
|                             | Shape                 | 4point Quadrangle zones                                                                                                                                                  |
|                             | Color / Option        | Gray, Green, Red, Blue, Black, White, Mosaic                                                                                                                             |
| Gain Control                |                       | Off, Max gain, Manual                                                                                                                                                    |
| White Balance               |                       | ATW, NarrowATW, AWC, Manual, Indoor, Outdoor                                                                                                                             |

## Operational

|                                          |             |                                                                                                                                                                                                                                                                                  |
|------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LDC                                      |             | Support(Fill/stretch mode)                                                                                                                                                                                                                                                       |
| Electronic Shutter                       | Mode        | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)                                                                                                                                                                                                       |
|                                          | Speed Range | 2~1/12,000sec                                                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                                                         |
| 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/SFTP,<br>File upload(video clip): FTP/SFTP,<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             | Vehicle            | Type(car, bus, truck, motorcycle, bicycle)                                                                                          |
| Thumbnail              |                    | DetectionShot                                                                                                                       |
| Analytics Events       | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection                  |
|                        | Normal             | Defocus detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) |
| Business Intelligence  | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting                                                                        |

## Network

|                   |                    |                                                                                                                                                                                                                             |
|-------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet          |                    | Metal shielded RJ-45(10/100/1000BASE-T)                                                                                                                                                                                     |
| Video Compression |                    | H.265/H.264: Main/Baseline/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 20 users                                                                                                                                                                                                              |
|                   | Multicast          | Support                                                                                                                                                                                                                     |
|                   | Multiple Streaming | Up to 10 profiles                                                                                                                                                                                                           |
| Protocol          |                    | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT |

## Network

|                                   |        |                                               |
|-----------------------------------|--------|-----------------------------------------------|
| 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), HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256) |  |
| Security Certificate   | TPM 2.0 with FIPS 140-2 level2                                                                        |  |

## General

|                       |                    |                                                                                                                                    |
|-----------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Memory                | RAM                | 4GB                                                                                                                                |
|                       | Flash              | 512MB                                                                                                                              |
| Edge Storage          | Micro SD/SDHC/SDXC | Max. 512GB x 2slot(Total 1TB)                                                                                                      |
| Edge Storage(OnCloud) | Micro SD/SDHC/SDXC | Max. 1TB x 2slots (Total 2TB) *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording. |

## Environmental & Electrical

|                     |             |                                 |
|---------------------|-------------|---------------------------------|
| Operating Condition | Temperature | -10°C~+55°C(+14°F~+131°F)       |
|                     | Humidity    | 0~95% RH(non-condensing)        |
| Storage Condition   | Temperature | -50°C~+60°C(-58°F~+140°F)       |
|                     | Humidity    | 0~90% RH(non-condensing)        |
| Input Voltage       |             | PoE(IEEE802.3af, Class3), 12VDC |
| Power Consumption   | PoE         | Max. 12.95W, typical 9.8W       |
|                     | 12VDC       | Max. 19W, typical 9.5W          |

## Mechanical

|                    |                                       |  |
|--------------------|---------------------------------------|--|
| Color              | Black                                 |  |
| Material           | Aluminum                              |  |
| RAL Code           | RAL9005                               |  |
| Product Dimensions | 81(W)x67(H)x165(D)mm(3.19x2.64x6.48") |  |
| Product Weight     | 880g(1.94lb)                          |  |

**Certifications & Standards**

|               |                                                                                                                                                                                                          |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EMC</b>    | FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, VCCI CISPR 32 Class A, RCM AS-NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835 |
| <b>Safety</b> | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471                                                                                                                                                         |

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CAD

Unit: mm [inch]

