





PNB-A6001

2MP AI Box Camera











Key Features

- Maximum 2MP resolution, Up to 120fps
- 0.006Lux@F1.2, 1/30sec. (Color), 0.0006Lux@F1.2, 1/30sec. (B/W)
- Day & Night (ICR), WDR (120dB), WiseNR II (Using AI engine)
- H.265, H.264, MJPEG, WiseStream II , WiseStream III (Using AI engine)
- Video Analytics based on Al
- Object detection and classification (Person, Face, Vehicle, License Plate)
- Face mask detection, Social distancing detection
- Attribute, BestShot
- TPM with FIPS 140-2 level2, Secure boot, Verify firmware forgery
- System requirements
- SSM v2.10.8 or later, Genetec plugin v1.0 or later, Milestone plugin v1.0.2 or later, NVR model (XRN-6410DB4/B4, XRN-3210B4)

Compatible Devices







SHB-4301HP

STB-4150V

Occupancy Monitoring **Application**



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Specifications

| Video | |
|-----------------------------|---|
| Imaging Device | 1/2" CMOS |
| Resolution | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, |
| | 640x480, 640x360 |
| Max. Framerate | H.265/H.264: Max. 60/50fps(60Hz/50Hz, AI analytics on), Max. 120/100fps(60Hz/50Hz, AI analytics off) |
| AR III | MJPEG: Max. 15fps/12fps(60Hz/50Hz) |
| Min. Illumination | Color: 0.006Lux(F1.2, 1/30sec,30IRE) B/W : 0.0006Lux(F1.2, 1/30sec,30IRE), 30/25fps Color: 0.012Lux(F1.2, 1/60sec,30IRE) B/W : 0.0012Lux(F1.2, 1/60sec,30IRE), 60/50fps Color: 0.024Lux(F1.2, 1/120sec,30IRE) B/W : 0.0024Lux(F1.2, 1/120sec,30IRE), 120/100fps |
| Video Out | CVBS: 1.0 Vp-p / 75Ω composite, $720x480(N)$, $720x576(P)$ for installation USB: Micro USB Type B, $1280x720$ for installation |
| Lens | |
| Focus Control | Simple focus |
| Lens Type | DC auto iris, P iris, Manual, I-CS |
| Mount Type | C mount, CS mount |
| | |
| Operational | |
| Camera Title | Displayed up to 85 characters |
| Day & Night | Auto(ICR) |
| Backlight Compensation | BLC, WDR, SSDR |
| Wide Dynamic Range | 120dB |
| Digital Noise Reduction | WiseNR II (using AI engine) SSNR V |
| Digital Image Stabilization | Stabilization Support(built-in gyro sensor) |
| Motion Detection | 8ea, polygonal zones |
| Privacy Masking | 6ea, rectangle zones - Color: Gray/Black/White |
| Gain Control | Low / Middle / High |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor |
| LDC | Support |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (1/5~1/12,000sec) Auto prefer shutter control based on AI engine |
| Video Rotation | Flip, Mirror, Hallway view(90-/270-) |
| | |



| Analytics | Classified object type: Person/Face/Vehicle/License plate Attributes: Person(Gender, Color and Bag), Face(Age, Gender, Mask and Glasses), Vehicle(Type: |
|-----------------------------------|--|
| | car/bus/truck/motorcycle/bicycle and Color) Support BestShot per object 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 Analytics events |
| | Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) Support WiseDetector for Adding custom objects |
| | *Some of the video analytics only works with people and vehicle detection |
| Business Intelligence | People/Vehicle/Crowd counting, Queue management, Heatmap based on Al engine |
| Serial Interface | RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell) |
| Alarm I/O | 2 configurable I/O ports, DC 12V output(Max. 50mA) |
| 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 - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback |
| Audio In | - MQTT: publication Selectable(mic in/line in/built-in mic) |
| Audio Out | Line out |
| Audio Out | Line out |
| Network | |
| Ethernet | Metal shielded RJ-45(10/100/1000 BASE-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 G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz |
| Smart Codec | Manual(5ea area), WiseStream II , WiseStreamIII (using AI engine) |
| Bitrate Control | H.264/H.265: CBR or VBR MJPEG: VBR |
| Streaming | Unicast(6 users) / Multicast Multiple streaming(Up to 6 profiles) |
| Protocol | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform WiseAI application included Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1TB |
| Security | |
| OS / Firmware Protect | Encrypted Firmware, Secure boot, Signed Firmware |
| User authentication | Digest Authenticaton, 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 |
| Audit | Access / System / Event Log management |
| Device ID | Device certificate (Hanwha Techwin Root CA) |
| Secure Storage | TPM, SDcard partition encrypt |
| Security Certificate | TPM with FIPS 140-2 level 2 |

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com. Hanwha Vision is formerly known as Hanwha Techwin.

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| General | |
|----------------------------------|--|
| Webpage Language | English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| Edge Storage | Micro SD/SDHC/SDXC 2slots 512GB |
| Memory | 4096MB RAM, 512MB Flash |
| Environmental & Electrical | |
| Operating Temperature / Humidity | -10°C ~ +55°C(+14°F ~ +131°F) / Less than 90% RH |
| Storage Temperature / Humidity | -50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH |
| Input Voltage | PoE+(IEEE802.3at), 12VDC |
| Power Consumption | PoE+: Max 17.5W, Typ 13.7W 12VDC: Max 14W, Typ 10.6W |
| Mechanical | |
| Color / Material | Body: Black / Aluminum |
| Product Dimensions / Weight | 81x67x165mm(3.19x2.64x6.48"), Weight: 0.88kg(1.94lb) |
| | |



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CAD Unit:mm [inch]

