





4K Al Box Camera











### **Key Features**

- Maximum 4K resolution
- 0.03Lux@F1.2(Color)
- Day & Night(ICR), WDR(120dB), WiseNR II (Using AI engine), Prefer Shutter
- H.265, H.264, MJPEG codec, 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
- Requires camera firmware v1.41.03 or later to use Face Mask Detection
- System requirements
- SSM v2.10.8 or later, Genetec plugin v1.0 or later, Milestone plugin v1.0.2 or later

### **Compatible Accessories** (Optional)









SHB-4301HP STB-4150V

Occupancy Monitoring Application

Al Plug-in



4K Al Box Camera







### **Specifications**

| Video                       |   |
|-----------------------------|---|
| Imaging Device              | 1/1.8" CMOS   |
| Resolution                  | 3840x2160, 3072x1728, 2592x1944, 2688x1520, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1280x1024,1280x960, 1280x720, 1024x768, 800 x 600, 800 x 448, 720 x 576, 720x480, 640x480, 640x360  |
| Max. Framerate              | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps/25fps(60Hz/50Hz)  |
| Min. Illumination           | Color: 0.03Lux(F1.2, 1/30sec)<br>B/W: 0.003Lux(F1.2, 1/30sec)   |
| Video Out                   | CVBS: $1.0\ Vp$ -p / $75\Omega$ 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  |
| 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<br>- 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)<br>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 |

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.



| People/Vehicle/Crowd counting, Queue management, Heatmap based on Al engine  |
|--|
| RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)   |
| 2 configurable I/O ports, DC 12V output(Max. 50mA)   |
| Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription  |
| 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 - MQTT: publication |
| Selectable(mic in/line in/Built in mic)  |
| Line out   |
|  |
| Metal shielded RJ-45(10/100/1000 BASE-T)   |
| H.265/H.264: Main/High, MJPEG  |
| G.711 u-law /G.726 Selectable<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48Kbps at 16KHz   |
| Manual(5ea area), WiseStream II , WiseStreamIII(using AI engine)   |
| H.264/H.265: CBR or VBR<br>MJPEG: VBR  |
| Unicast(6 users) / Multicast<br>Multiple streaming(Up to 6 profiles)   |
| 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  |
| ONVIF Profile S/G/T/M SUNAPI(HTTP API) Wisenet open platform - WiseAl application included(Analytic based on AI, Business intelligence)  |
|  |
| Encrypted Firmware, Secure boot, Signed Firmware   |
| Digest Authenticaton, Prevent brute-force attack   |
| IEEE 802.1X (EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)  |
| HTTPS, WSS (WebSocket Secure)  |
| IP-based access control  |
| Encryption Credentials, Encrypt compress for live recording file   |
| Access / System / Event Log management   |
| Device certificate (Hanwha Techwin Root CA)  |
| SDcard partition encrypt   |
|  |
| English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese,<br>Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek   |
| Micro SD/SDHC/SDXC 2slots 512GB  |
| 4096MB RAM, 512MB Flash  |
| 407011D 10 101, 31211D 1 10311   |
|  |
| -10°C ~ +55°C(+14°F ~ +131°F) / Less than 90% RH   |
|  |

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.



| Input Voltage               | PoE+(IEEE802.3at), 12VDC  |
|-----------------------------|---|
| Power Consumption           | PoE+: Max 16.50W, typical 12.50W<br>12VDC: Max 13.50W, typical 10.80W |
| Mechanical                  |   |
| Color / Material            | Body: Black / Aluminum  |
| Product Dimensions / Weight | 81x67x165mm(3.19x2.64x6.48"), Weight: 0.88kg(1.94lb)                  |



4K Al Box Camera







CAD Unit:mm [inch]

