



Network

# XNB-6002

Remote Head Cam & Lens modules



## Key Features

### Key Features

- Max. 2Megapixel (1920 x 1080) resolution
- H.265, H.264, MJPEG codec support, Multiple streaming
- Max. 60fps@2MP (H.265 / H.264)
- extremeWDR (120dB), Defog, DIS, WiseStreamII
- Tampering, Loitering, Directional detection, Fog detection
- Audio detection, Heatmap, Sound classification
- Queue management, Face detection, People counting
- Motion detection, Handover
- Compatible lens: SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA

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## Specifications

| Video                       |                |                                                                                                                   |
|-----------------------------|----------------|-------------------------------------------------------------------------------------------------------------------|
| Resolution                  |                | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate              | H.265/H.264    | 60fps/50fps(60Hz/50Hz)                                                                                            |
|                             | MJPEG          | 30fps                                                                                                             |
| Video Out                   |                | CVBS: 1.0 Vp-p / 75Ω composite for installation, USB: Micro USB Type B                                            |
| Lens                        |                |                                                                                                                   |
| Optional Lens               |                | SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA                                                     |
| Operational                 |                |                                                                                                                   |
| Day & Night                 |                | Auto(Electrical)                                                                                                  |
| Backlight Compensation      |                | BLC, HLC, WDR, SSSR                                                                                               |
| Wide Dynamic Range (dB)     |                | 120                                                                                                               |
| Digital Noise Reduction     |                | WiseNR, SSNR V                                                                                                    |
| Digital Image Stabilization |                | Support                                                                                                           |
| 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                                                                      |
| LDC                         |                | Support(Not support for fisheye lens)                                                                             |
| Electronic Shutter          | Mode           | Minimum, Maximum, Anti flicker, Prefer shutter control                                                            |
|                             | Speed Range    | 2~1/12,000sec                                                                                                     |
| Video Rotation              |                | Flip, Mirror, Hallway view(90°/270°)                                                                              |
| Alarm Interface             | In/Out         | Input 1ea, Output 1ea                                                                                             |
| Alarm Triggers              |                | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription                           |

## Operational

|                                          |                                                                                                                                                                                                                                                                      |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm Events When Alarm Trigger Occurred | File upload(image): e-mail/FTP/SFTP, File upload(video clip): FTP/SFTP, 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 |
| Audio In                                 | Selectable(mic in/line in)                                                                                                                                                                                                                                           |
| Audio Out                                | Line out                                                                                                                                                                                                                                                             |

## Analytics

|                       |        |                                                                                                                                                                                                                          |
|-----------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics Events      | Normal | Defocus detection, Motion detection, Tampering, Fog detection, Face detection, Audio detection, Sound classification, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) |
| Business Intelligence | Normal | People counting, Queue management, Heatmap                                                                                                                                                                               |

## Network

|                                   |                    |                                                                                                                                                                                                                  |
|-----------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                          |                    | RJ-45(10/100BASE-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, G.726: 16kbps, 24kbps, 32kbps, 40kbps, AAC-LC: 48kbps at 16kHz                                                                                     |
| Smart Codec                       |                    | Manual, WiseStream II                                                                                                                                                                                            |
| Bitrate Control                   |                    | H.265/H.264: CBR or VBR, 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, SRTP(TCP, UDP Unicast) |
| Application Programming Interface | ONVIF              | S, G, T                                                                                                                                                                                                          |
|                                   | 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                | 2GB              |
|              | Flash              | 512MB            |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 1TB x 1slot |

## Environmental & Electrical

|                           |             |                                 |
|---------------------------|-------------|---------------------------------|
| Operating Condition       | Temperature | -10°C~+55°C(+14°F~+131°F)       |
|                           | Humidity    | 0~95% RH(non-condensing)        |
| Storage Condition         | Temperature | -30°C~+60°C(-22°F~+140°F)       |
|                           | Humidity    | 0~90% RH(non-condensing)        |
| Input Voltage             |             | PoE(IEEE802.3af, Class3), 12VDC |
| Power Consumption         | PoE         | Max 10.5W, typical 6.9W         |
|                           | 12VDC       | Max 8.6W, typical 5.5W          |
| Power Redundance Failover |             | Support                         |

## Mechanical

|                    |                                           |
|--------------------|-------------------------------------------|
| Color              | Black                                     |
| Material           | Metal, Plastic                            |
| RAL Code           | RAL9005                                   |
| Product Dimensions | 131.1(W)x33.5(H)x86(D)mm(5.16x1.32x3.39") |
| Product Weight     | 420g(0.93lb)                              |

## Certifications & Standards

|             |                                                                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | 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 |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1                                                                                                                                                                    |
| Environment | IEC/EN 63000                                                                                                                                                                                             |

## Compatible lenses



| Video                   |                       | SLA-T2480A | SLA-T2480VA | SLA-T4680A |
|-------------------------|-----------------------|------------|-------------|------------|
| Imaging Device          | Size                  | 1/2.8"     | 1/2.8"      | 1/2.8"     |
|                         | Type                  | CMOS       | CMOS        | CMOS       |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.045      | 0.045       | 0.06       |
|                         | BW(1/30sec, 30IRE)    | 0.045      | 0.045       | 0.06       |

| Lens                           |            |                               |                               |                               |
|--------------------------------|------------|-------------------------------|-------------------------------|-------------------------------|
| Focal Length (mm)              |            | 2.4                           | 2.4                           | 4.6                           |
| Max. Aperture Ratio (F number) | Wide       | 2.0                           | 2.0                           | 2.5                           |
| Angular Field of View          | Horizontal | 138°                          | 138°                          | 73°                           |
|                                | Vertical   | 73°                           | 73°                           | 39°                           |
|                                | Diagonal   | 165°                          | 165°                          | 85°                           |
| Mount Type                     |            | RJ12 connected with main unit | RJ12 connected with main unit | RJ12 connected with main unit |
| Focus Control                  |            | Fixed                         | Fixed                         | Fixed                         |

| Mechanical         |             |                 |             |
|--------------------|-------------|-----------------|-------------|
| Color              | Black       | Black           | Black       |
| Material           | Plastic     | Metal, Plastic  | Plastic     |
| Product Dimensions | Ø24xL49.8mm | W30xH27.9xD45mm | Ø24xL49.8mm |
| Product Weight     | 318g        | 328g            | 310g        |

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CAD

Unit: mm [inch]

