



Network

# XNB-6002

2MP Remote Head Camera & Lens Modules

## Key Features

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

## XNB-6002

2MP Remote Head Camera & Lens Modules



## 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,<br>USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle. |
| Lens                        |                |                                                                                                                                 |
| Optional Lens               |                | SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA                                                                   |
| Operational                 |                |                                                                                                                                 |
| Day & Night                 |                | Auto(Electrical)                                                                                                                |
| Backlight Compensation      |                | BLC, HLC, WDR, SSDR                                                                                                             |
| 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,<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)                                                                                                                                                                                                                                                       |
| 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,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz                                                                                    |
| Smart Codec                       |                    | Manual, WiseStream II                                                                                                                                                                                            |
| 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, 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)                               |

## Security

|                      |                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------|
| 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                                                                                                      |
| Edge Storage(OnCloud) | Micro SD/SDHC/SDXC | Max. 1TB x 1slot *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 | -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                  |            |             |            |  |  |  |
|                                | Type                  |            |             |            |  |  |  |
| Min. Illumination (Lux)        | Color(1/30sec, 30IRE) |            |             |            |  |  |  |
|                                | BW(1/30sec, 30IRE)    |            |             |            |  |  |  |
| Lens                           |                       |            |             |            |  |  |  |
| Max. Aperture Ratio (F number) | Wide                  |            |             |            |  |  |  |
|                                | Tele                  |            |             |            |  |  |  |
| Angular Field of View          | Horizontal            |            |             |            |  |  |  |
|                                | Vertical              |            |             |            |  |  |  |
|                                | Diagonal              |            |             |            |  |  |  |
| Pan / Tilt / Rotate            |                       |            |             |            |  |  |  |
| Pan / Tilt / Rotate Range      | Pan                   |            |             |            |  |  |  |
|                                | Tilt                  |            |             |            |  |  |  |
|                                | Rotate                |            |             |            |  |  |  |
| Operational                    |                       |            |             |            |  |  |  |
| Environmental & Electrical     |                       |            |             |            |  |  |  |
| Operating Condition            | Temperature           |            |             |            |  |  |  |
|                                | Humidity              |            |             |            |  |  |  |
|                                | Others                |            |             |            |  |  |  |
| Storage Condition              | Temperature           |            |             |            |  |  |  |
|                                | Humidity              |            |             |            |  |  |  |
| Mechanical                     |                       |            |             |            |  |  |  |
| Certification & Standards      |                       |            |             |            |  |  |  |

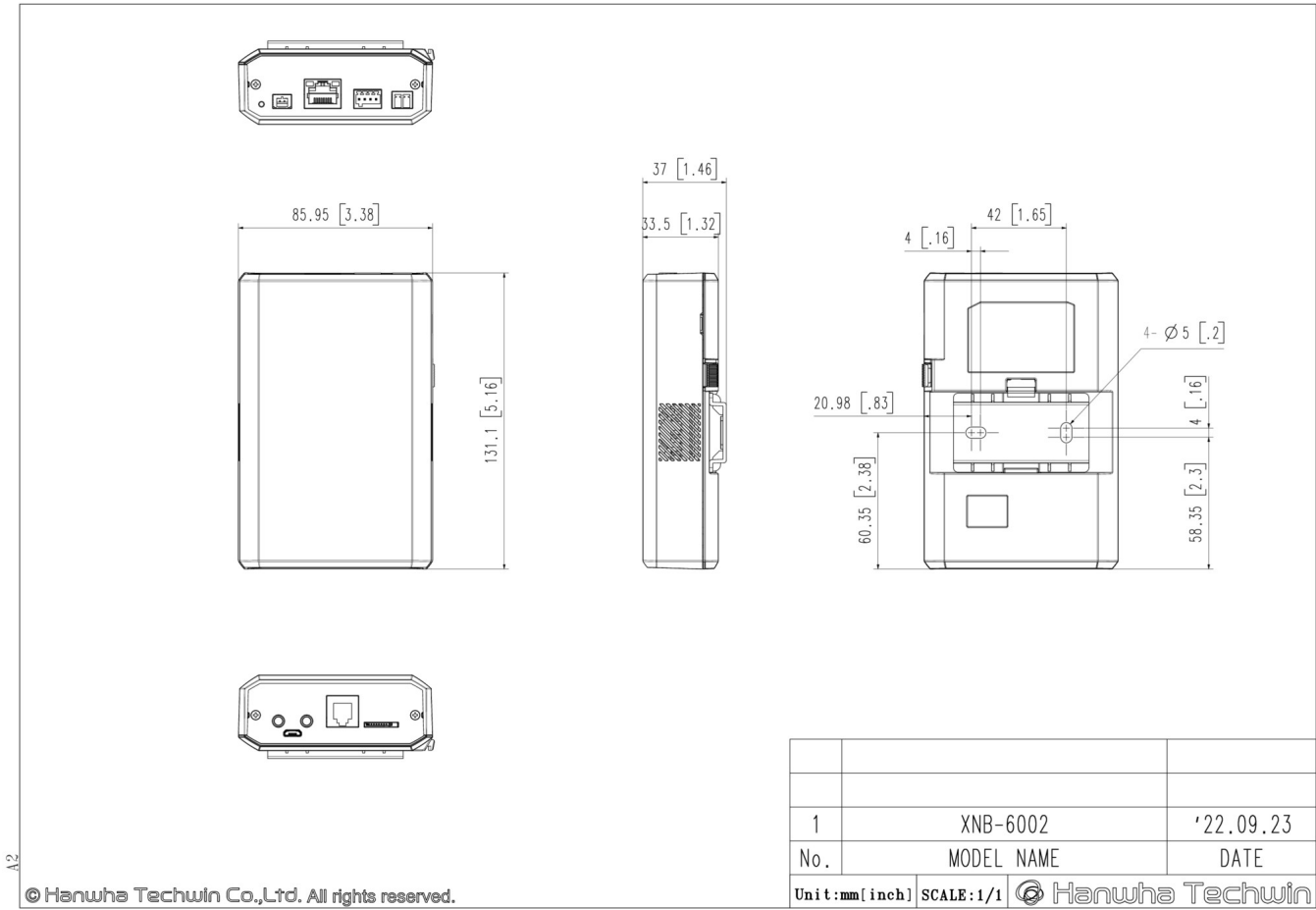
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CAD

Unit: mm [inch]



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