



Network

Dome

## XND-6081REV

2MP IR PoE Extender Dome Camera



### Key Features

- Max. 2MP resolution
- PoE Extender (Main cam, extension cam)
- PoE out :Max. 12.95W@80m
- 2.8~12mm(4.3x) motorized varifocal
- 0.015Lux@F1.4 (Color), 0Lux (B/W, IR LED on)
- IR viewable length 50m
- Day & Night (ICR), WDR (150dB)
- Hallway View, WiseStreamII Support
- Video & audio analytics, Audio playback
- Business Intelligence(People counting, Queue management, Heatmap)
- DIS and shock detection with built-in gyro sensor
- Modular structure, PoE+ in/ PoE out
- IP52, IK10

### Compatible Devices



SBP-300LMW



SBP-300WMW1



SBP-300KMW



SBP-300BW



SBP-300PMW



SBP-300WMW



SPB-IND85W



SBC-160B



SBP-300NBW



SBP-300CMW



SBP-167HMW

# XND-6081REV

2MP IR PoE Extender Dome Camera



## Specifications

| Video                         |                       |                                                                                                                   |
|-------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Imaging Device                | Size                  | 1/2.8"                                                                                                            |
|                               | Type                  | CMOS                                                                                                              |
| 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                                                                                                             |
| Min. Illumination (Lux)       | Color(1/30sec, 30IRE) | 0.015                                                                                                             |
|                               | BW(1/30sec, 30IRE)    | 0.0015                                                                                                            |
| Video Out                     |                       | CVBS: 1.0 Vp-p / 75Ω composite for installation,<br>USB: Micro USB Type B                                         |
| Lens                          |                       |                                                                                                                   |
| Focal Length (mm)             |                       | 2.8~12                                                                                                            |
| Zoom Ratio                    | Optical               | 4.3x                                                                                                              |
| Max Aperture Ratio (F number) | Wide                  | 1.4                                                                                                               |
|                               | Tele                  | 3.6                                                                                                               |
| Angular Field of View         | Horizontal            | 119.5°~27.9°                                                                                                      |
|                               | Vertical              | 62.8°~15.7°                                                                                                       |
|                               | Diagonal              | 142.1°~32.0°                                                                                                      |
| Min. Object Distance          |                       | 0.5m(1.64ft)                                                                                                      |
| Focus Control                 |                       | Simple focus, Manual                                                                                              |
| Lens Type                     |                       | DC auto iris(IR corrected), P iris(IR corrected)                                                                  |
| Pan / Tilt / Rotate           |                       |                                                                                                                   |
| Pan / Tilt / Rotate Range     | Pan                   | 0°~360°                                                                                                           |
|                               | Tilt                  | -45°~85°                                                                                                          |
|                               | Rotate                | 0°~355°                                                                                                           |
| Operational                   |                       |                                                                                                                   |
| Day & Night                   |                       | Auto(ICR)                                                                                                         |
| Backlight Compensation        |                       | BLC, HLC, WDR, SSDR                                                                                               |

## Operational

|                                          |                |                                                                                                                                                                                                                 |
|------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wide Dynamic Range (dB)                  |                | 150                                                                                                                                                                                                             |
| Digital Noise Reduction                  |                | 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          | Rectangular zones                                                                                                                                                                                               |
|                                          | Color / Option | Gray, Green, Red, Blue, Black, White, Mosaic                                                                                                                                                                    |
| Gain Control                             |                | Low, Middle, High                                                                                                                                                                                               |
| White Balance                            |                | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                                                                               |
| LDC                                      |                | Support                                                                                                                                                                                                         |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker                                                                                                                                                                                  |
|                                          | Speed Range    | 2~1/12,000sec                                                                                                                                                                                                   |
| Digital PTZ                              |                | Support                                                                                                                                                                                                         |
| Video Rotation                           |                | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                            |
| Alarm Interface                          | In/Out         | Input 1ea, Output 1ea                                                                                                                                                                                           |
| Alarm Triggers                           |                | Analytics, Network disconnect, Alarm input                                                                                                                                                                      |
| Alarm Events When Alarm Trigger Occurred |                | File upload(image): e-mail/FTP,<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 |
| Audio In                                 |                | Selectable(mic in/line in), Built-in mic                                                                                                                                                                        |
| Audio Out                                |                | Line out                                                                                                                                                                                                        |
| Light Type                               |                | IR LED                                                                                                                                                                                                          |
| Light Viewable Length                    | IR             | 50m(164.04ft)                                                                                                                                                                                                   |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                                           |

## Analytics

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

## Network

|                   |  |                                                                                                                               |
|-------------------|--|-------------------------------------------------------------------------------------------------------------------------------|
| Ethernet          |  | Metal shielded 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 |

## Network

|                                   |                    |                                                                                                                                                                                                                    |
|-----------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), PIM-SM |
| Application Programming Interface | ONVIF              | S, G, T                                                                                                                                                                                                            |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                      |
| Direct Cloud Connection           |                    | Optional (needs gateway)                                                                                                                                                                                           |

## Security

|                        |  |                                                                         |
|------------------------|--|-------------------------------------------------------------------------|
| OS / Firmware Protect  |  | Encrypted firmware, Secure boot, Signed firmware                        |
| User authentication    |  | Digest authentication                                                   |
| Network authentication |  | IEEE 802.1X(EAP-TLS, EAP-LEAP)                                          |
| 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         |  | SDcard partition encrypt(AES-256)                                       |

## General

|              |                    |                               |
|--------------|--------------------|-------------------------------|
| Memory       | RAM                | 1GB                           |
|              | Flash              | 256MB                         |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 512GB x 2slot(Total 1TB) |

## Environmental & Electrical

|                     |             |                                                               |
|---------------------|-------------|---------------------------------------------------------------|
| Operating Condition | Temperature | -25°C~+60°C(-13°F~+140°F)                                     |
|                     | Humidity    | 0~90% RH(non-condensing)                                      |
| Storage Condition   | Temperature | -50°C~+60°C(-58°F~+140°F)                                     |
|                     | Humidity    | 0~90% RH(non-condensing)                                      |
| Input Voltage       |             | PoE+(IEEE802.3at, Class4)                                     |
| Power Consumption   | PoE         | Max. 25.5W (Main CAM+Extension CAM), Typical 10.2W (Main CAM) |

## Mechanical

|          |          |
|----------|----------|
| Color    | White    |
| Material | Aluminum |

## Mechanical

|                         |                        |
|-------------------------|------------------------|
| RAL Code                | RAL9003                |
| Product Dimensions      | ø160x125mm(6.30x4.92") |
| Product Weight          | 1450g(3.20lb)          |
| Compatible Conduit Hole | 19.1mm(3/4")(M25)      |

## Certifications & Standards

|             |                                |
|-------------|--------------------------------|
| Environment | IEC 60529 IP52, IEC 62262 IK10 |
|-------------|--------------------------------|

## DORI (EN62676-4 standard)

|                           |      |                |
|---------------------------|------|----------------|
| Detect (25PPM/ 8PPF)      | Wide | 22.4m(73.49ft) |
|                           | Tele | 155m(508.53ft) |
| Observe (63PPM/ 19PPF)    | Wide | 9.0m(29.53ft)  |
|                           | Tele | 62m(203.41ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 4.5m(14.76ft)  |
|                           | Tele | 31m(101.71ft)  |
| Identify (250PPM/ 76PPF)  | Wide | 2.2m(7.22ft)   |
|                           | Tele | 15m(49.21ft)   |

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CAD

Unit: mm [inch]

