



Network

Dome

## XND-6020R

2M H.265 IR Dome Camera



### Key Features

- Built-in 4mm fixed lens
- Max. 60fps@all resolutions (H.265/H.264)
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Day & Night (ICR), WDR (150dB), Defog
- Loitering, Directional detection, Fog detection, Tampering
- Audio detection, Digital auto tracking, Sound classification
- Heatmap, People counting, Queue management
- Handover, WiseStream II support
- microSD/SDHC/SDXC memory slot (Max. 512GB)

### Compatible Devices



SPB-IND11



SBP-300CM



SBP-120WM



SBP-300PM



SBP-300KM



SBP-300WM1



SBP-300LM



SBP-390WM2



SBP-300WM



SBP-300B



SBP-300HM7



SBP-300NB

## XND-6020R

2M H.265 IR 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. Preview and installation ONLY. Requires WiFi dongle. |
| Lens                          |                       |                                                                                                                                 |
| Focal Length (mm)             |                       | 4                                                                                                                               |
| Max Aperture Ratio (F number) | Wide                  | 1.4                                                                                                                             |
| Angular Field of View         | Horizontal            | 88.6°                                                                                                                           |
|                               | Vertical              | 47.5°                                                                                                                           |
|                               | Diagonal              | 104.8°                                                                                                                          |
| Min. Object Distance          |                       | 0.4m(1.31ft)                                                                                                                    |
| Lens Type                     |                       | Fixed iris                                                                                                                      |
| Pan / Tilt / Rotate           |                       |                                                                                                                                 |
| Pan / Tilt / Rotate Range     | Pan                   | 0°~354°                                                                                                                         |
|                               | Tilt                  | 0°~67°                                                                                                                          |
|                               | Rotate                | 0°~355°                                                                                                                         |
| Operational                   |                       |                                                                                                                                 |
| Day & Night                   |                       | Auto(ICR)                                                                                                                       |
| Backlight Compensation        |                       | BLC, HLC, WDR, SSDR                                                                                                             |
| Wide Dynamic Range (dB)       |                       | 150                                                                                                                             |
| Digital Noise Reduction       |                       | SSNR V                                                                                                                          |

## Operational

|                                          |                |                                                                                                                                                                                             |
|------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital Image Stabilization              |                | Support                                                                                                                                                                                     |
| Defog                                    |                | Support                                                                                                                                                                                     |
| Motion Detection                         | Quantity       | 8ea                                                                                                                                                                                         |
|                                          | Shape          | 8point Polygonal zones                                                                                                                                                                      |
| Privacy Masking                          | Quantity       | 32ea                                                                                                                                                                                        |
|                                          | Shape          | Polygonal 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                                                                                                                                                                               |
| 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 In                                 |                | Selectable(mic in/line in)                                                                                                                                                                  |
| Audio Out                                |                | Line out                                                                                                                                                                                    |
| Light Type                               |                | IR LED                                                                                                                                                                                      |
| Light Viewable Length                    | IR             | 30m(98.42ft)                                                                                                                                                                                |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                       |

## 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) , Digital auto tracking |
| 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                                                                                        |

## Network

|                                   |                    |                                                                                                                                                                                                                     |
|-----------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, SRTSP(TCP, UDP Unicast), PIM-SM |
| Application Programming Interface | ONVIF              | S, G, T                                                                                                                                                                                                             |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                       |

## 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), SRTSP                                     |
| Access Control         | IP-based access control                                                 |
| Data Protect           | Encryption credentials, Encrypt compress for live recording file export |
| Audit                  | Access / System / Event Log management                                  |
| Secure Storage         | SDcard partition encrypt(AES-256)                                       |

## General

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

## Environmental & Electrical

|                     |             |                                 |
|---------------------|-------------|---------------------------------|
| Operating Condition | Temperature | -10°C~+55°C(+14°F~+131°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(IEEE802.3af, Class3), 12VDC |
| Power Consumption   | PoE         | Max 9W                          |
|                     | 12VDC       | Max 8W                          |

## Mechanical

|                    |                       |
|--------------------|-----------------------|
| Color              | Ivory                 |
| Material           | Aluminum              |
| Product Dimensions | Ø110x90mm(4.33x3.54") |
| Product Weight     | 380g(0.84lb)          |

Certifications & Standards

|             |                |
|-------------|----------------|
| Environment | IEC 62262 IK08 |
|-------------|----------------|

# XND-6020R

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**CAD**

**Unit:** mm [inch]

