



Network

Bullet

## XNO-8020R

5M H.265 IR Bullet Camera



### Key Features

- Built-in 3.7mm fixed lens
- Max. 30fps@all resolutions (H.265/H.264)
- Loitering, Directional detection, Fog detection
- Digital auto tracking, Sound classification, Heatmap
- People counting, Queue management, Tampering
- Motion detection, Handover, Audio detection
- Dual SD slots (Max. 512GB), WiseStream II support
- IR viewable length 30m, IP67/IP66, NEMA 4X, IK10

### Compatible Accessories (Optional)



SBP-302PM

# XNO-8020R

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## Specifications

### Video

|                   |                                                                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device    | 1/1.8" 5MP CMOS                                                                                                                                    |
| Resolution        | 2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate    | H.265/H.264 : Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps/25fps(60Hz/50Hz)                                                                    |
| Min. Illumination | Color: 0.16Lux(F1.6, 1/30sec)<br>B/W: 0Lux(IR LED on)                                                                                              |
| Video Out         | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation<br>USB: Micro USB Type B, 1280x720, for installation                      |

### Lens

|                           |                               |
|---------------------------|-------------------------------|
| Focal Length (Zoom Ratio) | 3.7mm fixed focal             |
| Max. Aperture Ratio       | F1.6                          |
| Angular Field of View     | H: 97.5°, V: 71.9°, D: 126.2° |
| Min. Object Distance      | 0.4m(1.31ft)                  |
| Focus Control             | Simple focus                  |

### Operational

|                             |                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Title                | Displayed up to 85 characters                                                                                                                                                                                             |
| Day & Night                 | Auto(ICR)                                                                                                                                                                                                                 |
| Backlight Compensation      | BLC, HLC, WDR, DWDR, SSDR                                                                                                                                                                                                 |
| Wide Dynamic Range          | 120dB                                                                                                                                                                                                                     |
| Digital Noise Reduction     | SSNR V                                                                                                                                                                                                                    |
| Digital Image Stabilization | Support                                                                                                                                                                                                                   |
| Defog                       | Support                                                                                                                                                                                                                   |
| Motion Detection            | 8ea, 8point polygonal zones                                                                                                                                                                                               |
| Privacy Masking             | 32ea, polygonal zones<br>- Color: Grey/Green/Red/Blue/Black/White<br>- Mosaic                                                                                                                                             |
| Gain Control                | Low / Middle / High                                                                                                                                                                                                       |
| White Balance               | ATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                                                     |
| LDC                         | Support                                                                                                                                                                                                                   |
| Electronic Shutter Speed    | Minimum / Maximum / Anti flicker (2~1/12,000sec)                                                                                                                                                                          |
| Video Rotation              | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                      |
| Analytics                   | Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Digital auto tracking, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification |
| Business Intelligence       | People counting, Queue management, Heatmap                                                                                                                                                                                |
| Alarm I/O                   | Input 1ea / Output 1ea                                                                                                                                                                                                    |
| Alarm Triggers              | Analytics, Network disconnect, Alarm input                                                                                                                                                                                |
| Alarm Events                | File upload via FTP and E-Mail<br>Notification via E-Mail<br>SD/SDHC/SDXC or NAS recording at Event Triggers<br>Alarm output<br>Handover                                                                                  |
| Audio In                    | Selectable(Mic in/Line in),<br>Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm                                                                                                                                       |
| Audio Out                   | Line out, Max. output level: 1Vrms                                                                                                                                                                                        |

IR Viewable Length 30m(98.43ft)

## Network

|                                          |                                                                                                                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ethernet</b>                          | RJ-45(10/100BASE-T)                                                                                                                                                                               |
| <b>Video Compression</b>                 | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                            |
| <b>Audio Compression</b>                 | 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                                                              |
| <b>Smart Codec</b>                       | Manual(5ea area)<br>WiseStream II                                                                                                                                                                 |
| <b>Bitrate Control</b>                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                             |
| <b>Streaming</b>                         | Unicast(20 users) / Multicast<br>Multiple streaming(Up to 10 profiles)                                                                                                                            |
| <b>Protocol</b>                          | 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, PIM-SM, UPnP, Bonjour , LLDP, SRTCP |
| <b>Security</b>                          | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access Log<br>802.1X Authentication(EAP-TLS, EAP-LEAP)                                             |
| <b>Application Programming Interface</b> | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform                                                                                                                                  |

## General

|                     |                                                                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Web Viewer</b>   | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12<br>Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only) |
| <b>Edge Storage</b> | Micro SD/SDHC/SDXC 2slot 512GB                                                                                                                                                                                    |
| <b>Memory</b>       | 1024MB RAM, 256MB Flash                                                                                                                                                                                           |

## Environmental & Electrical

|                                         |                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Operating Temperature / Humidity</b> | -30°C ~ +55°C(-22°F ~ +131°F) / Less than 90% RH<br>*Start up should be done at above -20°C |
| <b>Storage Temperature / Humidity</b>   | -50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH                                            |
| <b>Certification</b>                    | IP67/IP66/NEMA4X, IK10                                                                      |
| <b>Input Voltage</b>                    | PoE(IEEE802.3af, Class3), 12VDC                                                             |
| <b>Power Consumption</b>                | PoE: Max 10.3W<br>12VDC: Max 9.3W                                                           |

## Mechanical

|                                    |                                          |
|------------------------------------|------------------------------------------|
| <b>Color / Material</b>            | Dark grey / Aluminum                     |
| <b>Product Dimensions / Weight</b> | Ø70x296mm(Ø2.76"x11.65"), 1220g(2.69 lb) |

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**CAD**

Unit: mm [inch]

