



Network

Bullet

## PNO-9080R

4K H.265 IR Bullet Camera



### Key Features

- Max. 12M (4000 x 3000) resolution
- Max. 20fps@12M, Max.30fps@8M
- 0.3Lux@F1.6 (Color), 0Lux (B/W : IR LED on)
- 4.5 ~ 10mm (2.2x) motorized varifocal lens
- H.265, H.264, MJPEG support
- Day & Night (ICR), WDR (120dB)
- Simple focus, P-Iris
- Motion detection, Defocus detection, Tampering
- SD/SDHC/SDXC memory slot (Max, 128GB)
- NAS, Local PC support
- Hallway view (Rotate 90° / 270°)

### Compatible Accessories (Optional)



SBP-302PM

# PNO-9080R

4K H.265 IR Bullet Camera



## Specifications

### Video

<b>Imaging Device</b>	1/1.7" 12.4MP CMOS
<b>Resolution</b>	[8M mode] 4096x2160, 3840x2160, 2592x1944, 2592x1464, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 [12M mode] 4000x3000, 3840x2160, 2592x1944, 2592x1464, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
<b>Max. Framerate</b>	H.265/H.264: Max. 20fps@4000x3000, Max. 30fps@4096x2160 MJPEG: 2fps@4000x3000 ~ 2592x1464, 15fps@1920x1080 ~ 320x240
<b>Min. Illumination</b>	Color: 0.3Lux(F1.6, 1/30sec), 0.01Lux(F1.6, 2sec) B/W: 0Lux(IR LED On)
<b>Video Out</b>	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation

### Lens

<b>Focal Length (Zoom Ratio)</b>	4.5~10mm(2.2x) motorized varifocal
<b>Max. Aperture Ratio</b>	F1.6
<b>Angular Field of View</b>	[4096x2160] H: 100.3°(Wide)~45.6°(Tele) / V: 49.7°(Wide)~24.0°(Tele) [3840x2160] H: 92.3°(Wide)~42.6°(Tele) / V: 49.7°(Wide)~24.0°(Tele)
<b>Min. Object Distance</b>	0.5m(1.64ft)
<b>Focus Control</b>	Simple focus, Manual
<b>Lens Type</b>	P iris

### Operational

<b>Camera Title</b>	Displayed up to 60 characters
<b>Day &amp; Night</b>	Auto(ICR)
<b>Backlight Compensation</b>	BLC, WDR, SSSR
<b>Wide Dynamic Range</b>	120dB
<b>Digital Noise Reduction</b>	SSNR
<b>Defog</b>	Support(built-in optical filter)
<b>Motion Detection</b>	8ea, polygonal zones
<b>Privacy Masking</b>	16ea, rectangular zones - Color: Grey/Green/Red/Blue/Black/White
<b>Gain Control</b>	Low / Middle / High
<b>White Balance</b>	ATW / AWC / Manual / Indoor / Outdoor
<b>Electronic Shutter Speed</b>	Minimum / Maximum / Anti flicker (2~1/12,000sec)
<b>Video Rotation</b>	Flip, Mirror, Hallway view(90°/270°)
<b>Analytics</b>	Defocus detection, Fog detection, Motion detection, Digital auto tracking, Appear/Disappear, Enter/Exit, Tampering, Virtual line, Audio detection
<b>Alarm I/O</b>	Input 1ea / Output 1ea
<b>Alarm Triggers</b>	Analytics, Network disconnect, Alarm input
<b>Alarm Events</b>	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output
<b>Audio In</b>	Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
<b>Audio Out</b>	Line out, Max.output level: 1Vrms
<b>IR Viewable Length</b>	40m(131.23ft)

## Network

<b>Ethernet</b>	RJ-45(10/100/1000BASE-T)
<b>Video Compression</b>	H.265/H.264: Main/Baseline/High, MJPEG
<b>Audio Compression</b>	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
<b>Smart Codec</b>	Manual(5ea area), WiseStream I
<b>Bitrate Control</b>	H.264/H.265: CBR or VBR MJPEG: VBR
<b>Streaming</b>	Unicast(15 users) / Multicast Multiple streaming(Up to 3 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
<b>Security</b>	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP)
<b>Application Programming Interface</b>	ONVIF Profile S/G/Q SUNAPI(HTTP API) SVNP Wisenet open platform

## General

<b>Web Viewer</b>	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explorer11, MS Edge, Mozilla Firefox(Windows 64bit only), Apple Safari(Mac OS X only)
<b>Edge Storage</b>	Micro SD/SDHC/SDXC 1slot 128GB
<b>Memory</b>	1024MB RAM , 256MB Flash

## Environmental & Electrical

<b>Operating Temperature / Humidity</b>	-40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH * Start up should be done at above -35°C (-31°F)
<b>Storage Temperature / Humidity</b>	-40°C ~ +60°C(-40°F ~ +140°F) / Less than 90% RH
<b>Certification</b>	IP66, IK10
<b>Input Voltage</b>	PoE(IEEE802.3af, Class3), 24VAC, 12VDC
<b>Power Consumption</b>	PoE: Max 12.95W, typical 11.77W 12VDC: Max 11.55W, typical 10.45W 24VAC: Max 14.08W, typical 12.43W

## Mechanical

<b>Color / Material</b>	Ivory / Aluminum
<b>Product Dimensions / Weight</b>	82.4(W)x87.0(H)x348.3(D)mm(3.24x3.43x13.71"), 1400g(3.09 lb)