



Network Bullet

PNO-A9081RLP

4K LPR/ANPR/MMCR IR Bullet Camera



Key Features

Max. 4K resolution

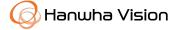
- 0.05Lux@F1.6 (Color), 0Lux (B/W, IR LED on)
- Day & Night(ICR), WDR(120dB)
- IR Viewable Length 30m (98.42ft)
- H.265, H.264, MJPEG codec, WiseStream II
- Wisenet Road AI application (Pre-installed)
- License/Number Plate Recognition
- Make/Model/Color Recognition
- Black/White list notification
- Smart Search (LP/NP, Country, brand, model, color)

* Supported features may vary by region. Please contact your regional manager for more details.

Compatible Accessories (Optional)



SBP-302PM



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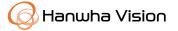


Specifications

Video		
Imaging Device	1/1.8" CMOS	
Resolution	3840x2160, 3072x1728, 2592x1944, 2688x1520, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1280x1024,1280x960, 1280x720, 1024x768, 800 x 600, 800 x 448, 720 x 576, 720x480, 640x480, 640x360	
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)	
Min. Illumination	Color: 0.05Lux(F1.6, 1/30sec) BW: 0.005Lux(F1.6, 1/30sec), 0Lux(IR LED on)	
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB: Micro USB Type B, 1280x720 for installation	
Lens		
Focal Length (Zoom Ratio)	4.5~10mm(2.2x) motorized varifocal	
Max. Aperture Ratio	F1.6(Wide)~F2.65(Tele)	
Angular Field of View	H:101.4°(Wide)~45.5°(Tele) / V:53.6°(Wide)~25.5°(Tele) / D:120.7°(Wide)~52.3°(Tele)	
Min. Object Distance	0.5m(1.64ft)	
Focus Control	Simple focus	
Lens Type	P iris	
Operational		
Camera Title	Displayed up to 85 characters	
Day & Night	Auto(ICR)	
Backlight Compensation	BLC, WDR, SSDR	
Digital Noise Reduction	SSNR V	
Digital Image Stabilization	Stabilization Support(built-in gyro sensor)	
Motion Detection	8ea, polygonal zones	
Privacy Masking	6ea, rectangle zones - Color: Gray/Black/White	
Gain Control	Low / Middle / High	
White Balance	ATW / AWC / Manual / Indoor / Outdoor	
LDC	Support	
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1/5~1/12,000sec)	
Video Rotation	Flip, Mirror, Hallway view(90-/270-)	
Analytics	Defocus detection, Tampering, Audio detection, Sound classification, Shock detection	
Alarm I/O	Input 1ea / Output 1ea / DC 12V Power(Max. 50mA) 1ea	
Alarm Triggers	Analytics, Network disconnect, Alarm input	



Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event trigger Alarm output Handover Audio playback	rs
Audio In	Selectable(mic in/line in/Built in mic) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm	
Audio Out	Line out, Max.output level: 1Vrms	
IR Viewable Length	30m(98.42ft)	
Network		
Ethernet	Metal shielded RJ-45(10/100/1000 BASE-T)	
Video Compression	H.265/H.264: Main/High, MJPEG	
Audio Compression	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	
Smart Codec	Manual(5ea area), WiseStream II	
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR	
Streaming	Unicast(6 users) / Multicast Multiple streaming(Up to 3 profiles)	
Protocol		RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP,
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Techwin Root CA) Secure boot	
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API)	
General		
Webpage Language	English, French, German, Spanish, Italian, Chineso Swedish, Portuguese, Czech, Polish, Turkish, Duto	
Edge Storage	Pre-installed with 32GB Micro SD to support 10,0	5
Memory	4096MB RAM, 512MB Flash	
Environmental & Electrical		
Operating Temperature / Humidity	-40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% R * Start up should be done at above -30°C	Н
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% R	Н
Certification	IP66/IP67, IK10, NEMA4X	
Input Voltage	PoE+(IEEE802.3at), 12VDC	
Power Consumption	PoE+: Max 20.0W, typical 17.00W 12VDC: Max 18.00W, typical 16.00W	
Mechanical		
Color / Material	Dark gray / Aluminum	
Product Dimensions / Weight	Ø91.0x368.6mm (3.58" x 14.51") (Without sunshield), Weight : 2.48Kg (5.47lb)	
Wisenet Road AI LPR/ANPR/MMCR		
Solution		



Speed Description	Moderate Speed	Low speed
Lane Coverage	1 lane (3.6m/12ft Wide) (with built in IR)	1 lane (3.6m/12ft Wide) (with built in IR)
Speed limit	Up to 70kmh (45mph) (with built in IR)	Up to 40kmh (25mph) (with built in IR)
Min. Forward Distance	12m (38ft)	10m (33ft)
Max. Forward Distance	12m (40ft) (with built in IR)	13m (45ft) (with built in IR)
Max. Horizontal Angle	25°	30°
Max. Vertical Angle	25°	30°
Horizontal Offset	Up to 5m (18ft)	Up to 7m (24ft)
Camera Height	Up to 5m (18ft)	Up to 7m (24ft)
Vehicle Recognition	Make : 70+ Model : 600+ Color : 11	
Available Countries	Albania, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Czechia, Denmark, Estonia, Finland, France, Greece, Germany, Hungary, Ireland, Iceland, Italy, Lithuania, Luxembourg, Latvia, Montenegro, North Macedonia, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Slovakia, Spain, Switzerland, Turkey, United Kingdom, United States of America, Canada, Russian Federation, Azerbaijan, Uzbekistan, Ukraine, Kyrgyzstan, Kazakhstan, Tajikistan, Georgia, Turkmenistan, Australia, New Zealand, Indonesia, Vietnam, Bahrain, Kuwait, Oman, Qatar, KSA (Kingdom of Saudi Arabia), UAE, South Africa, Hongkong/Taiwan (MMCR is not available)	



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CAD

Unit:mm [inch]

