





4K LPR/ANPR/MMCR IR Bullet Camera











### **Key Features**

- Max. 4K resolution
- 0.05Lux@F1.6 (Color), OLux (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)

#### **Compatible Accessories** (Optional)



SBP-302PM

<sup>\*</sup> Supported features may vary by region. Please contact your regional manager for more details.





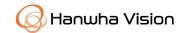






### **Specifications**

Video	PNO-A9081RLP	
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), OLux(IR LED on)	
Video Out	CVBS: 1.0 Vp-p / $75\Omega$ 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	SSNRV	
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, Motion 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	



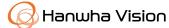
Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover Audio playback		
Audio In	Selectable(mic in/line in/Built in mic) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm		
Audio Out	Line out, Max.output level: 1Vrms		
IR Viewable Length	30m(98.42ft)		
Network	Maria I al I al Agrico (400/400 PAGE T)		
Ethernet Video Communica	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	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)		
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) Wisenet open platform		
General			
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek		
Edge Storage	Pre-installed with 32GB Micro SD to support 10,000 LPR images		
Memory	4096MB RAM, 512MB Flash		
Facility and a state of the state of			
Environmental & Electrical	-40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH		
Operating Temperature / Humidity	* Start up should be done at above -30°C		
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH		
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			

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com Hanwha Vision is formerly known as Hanwha Techwin.

**Community Traffic** 

Solution

Parking Application



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]

