



PNO-A9081RLP

4K Low-Moderate Speed LPR Bullet Camera

FC | UL | CE | EAC

Key Features

- Embedded Wisenet Road AI application pre-installed and licensed, compatible with US/Canada/Mexico plates
- No server or cloud connection needed
- AI-based recognition:
 - License Plate Recognition
 - Make/Model/Color Recognition
 - Allow/Deny list notification
- Efficient Smart Search & Dashboard view (LP, Country/State, brand, model, color)
- Easy setup with wizard for optimal plate identification
- Industrial grade SD card provides on-camera storage for 10,000 vehicle/plate images and access control lists
- VMS integration with Wisenet WAVE, Genetec, & Milestone
- 4K resolution (3840x2160), 4.5-10mm lens
- 0.05Lux@F1.2 (Color), 0Lux IR LED on (B/W)
- Day & Night (ICR), WDR (120dB)
- H.265, H.264, MJPEG codec, WiseStreamIII
- Alarm I/O
- PoE+/12vDC
- IP66/67/IP6K9K, IK10+, NEMA4X

Wisenet Road AI Performance Specifications

Usage Type	Parking	Community Traffic	City Traffic	Secondary Roads
Speed	Low speed Up to 25MPH	Moderate speed Up to 45MPH	Moderate speed Up to 65MPH	Moderate speed Up to 75MPH
Lane Coverage	2 lanes @Color (24ft Wide)	2 lanes @Color (18ft Wide)	Up to 2 lanes (18ft Wide)	Up to 2 lanes (18ft Wide)
	1 lane @Black & White with built-in IR	1 lane @Black & White with built-in IR		
Maximum Forward Distance	Color: 52ft Black & White w/ IR: 45ft	Color: 52ft Black & White w/ IR: 45ft	Color: 120ft Black & White: 120ft with ext. IR	Color: 120ft Black & White: 120ft with ext. IR
Maximum Horizontal Angle	30°	25°	25°	15°
Maximum Vertical Angle	30°	25°	25°	15°
Horizontal Offset	Up to 24ft	Up to 18ft	Up to 24ft	Up to 12ft
Camera Install Height	Up to 24ft	Up to 18ft	Up to 24ft	Up to 12ft
Applicable Form Factor	Dome/Bullet/Box	Dome/Bullet/Box	Box* (Depending on lens used)	Box* (Depending on lens used)

Compatible Accessories



SBP-302PM

Related Wisenet Road AI Models



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4K Low-Mid Speed LPR
Bullet Camera

Specifications

License Plate Recognition

Stored Images	Up to 10,000 local storage			
Vehicle Recognition	Make: 70+ Model: 700+ Color 10			
Available Countries	USA, Canada, Mexico			
Min. Illumination	Color: 0.05Lux (F1.6, 1/30sec) B/W: 0Lux (IR LED on)			
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480 for installation USB: Micro USB Type B, 1280x720 for installation			
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Horizontal Offset	Up to 24ft	Up to 18ft	Up to 24ft	Up to 12ft
Camera Install Height	Up to 24ft	Up to 18ft	Up to 24ft	Up to 12ft
Applicable Model	Dome/Bullet/Box	Dome/Bullet/Box	Box camera with enclosure & IR	Box camera with enclosure & IR

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
Maximum Framerate	H.265/H.264: Maximum 30fps MJPEG: Maximum 30fps
Minimum Illumination	Color: 0.03Lux (F1.2, 1/30sec) B/W : 0.003Lux (F1.2, 1/30sec)
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480 for installation USB: Micro USB Type B, 1280x720 for installation

Lens

Focus Control	Simple focus
Lens Type	DC auto iris, P iris, Manual
Mount Type	Cmount, CSmount

Operational

Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSSDR
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 (microphone in/line in/Built-in microphone) Supply voltage: 2.5VDC (4mA), Input impedance: 2K Ohm
Audio Out	Line out, Maximum output level: 1Vrms

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), WiseStreamIII
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 industrial-grade 32GB Micro SD to support 10,000 LPR images
Memory	4096MB RAM, 512MB Flash

Environmental & Electrical

Operating Temperature / Humidity	-40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH
Input Voltage	PoE+ (IEEE802.3at), 12VDC
Power Consumption	PoE+: Maximum 16.50W, typical 12.50W 12VDC: Maximum 13.50W, typical 10.80W

Mechanical

Color / Material	Body: Dark Greg / Aluminum
Product Dimensions / Weight	Ø91.0x368.6mm (3.58" x 14.51") (Without sunshield), Weight : 2.48Kg (5.47lb)

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CAD

Unit: mm [inch]

