

Network BOX

PNB-A9091RLPH

4K AI LPR Box Camera Kit with IR

Key Features

- 4K resolution
- Day & Night(ICR), WDR(120dB)
- H.265, H.264, MJPEG codec, WiseStream II
- Wisenet Road AI application (Pre-installed)
- CNN-based AI with improved accuracy even in challenging conditions
- License/Number Plate Recognition (LPR/ANPR)
- Make/Model/Color Recognition (MMCR)
- Allow / Deny list notification
- Smart Search (LP, Country, brand, model, color)
- Efficient Smart Search & Dashboard view (LP,Country/State, brand, model, color)
- Easy setup with wizard for optimal plate identification

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
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4K AI LPR Box Camera Kit with IR



Specifications

Video

Imaging Device	Size	1/1.8"
	Type	CMOS
Resolution		3840x2160, 3072x1728, 2688x1520, 2592x1944, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.03
	BW(1/30sec, 30IRE)	0.003
Video Out		CVBS: 1.0 Vp-p / 75Ω composite for installation, USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.

Lens

Focus Control	Simple focus
Lens Type	DC auto iris, P iris(IR corrected), Manual, I-CS
Optional Lens	CBC (3.9~10mm F1.5, E3Z3915CS/EG3Z3915FCS/EG3Z3915KCS/EG3Z3915TCS), CBC (9~50mm F1.5, EG6Z0915FCS/EG6Z0915KCS/EG6Z0915TCS), THEIA (4~10mm F1.4, SL410M/SL410A/SL410P/TL410A/TL410P), THEIA (12~50mm F1.8, SL1250M/SL1250A/SL1250P/TL1250A/TL1250P)

Operational

Day & Night		Auto(ICR)
Backlight Compensation		BLC, WDR, SSDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		SSNR V
Digital Image Stabilization		Support(built-in gyro sensor)
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	6ea
	Shape	Rectangular zones
	Color / Option	Gray, Black, White
Gain Control		Low, Middle, High

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Operational

White Balance		ATW, AWC, Manual, Indoor, Outdoor
LDC		Support
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker
	Speed Range	1/5~1/12,000sec
Video Rotation		Flip, Mirror, Hallway view(90°/270°)
Alarm Interface	In/Out	Input 1ea, Output 1ea
	Others	12VDC output
Alarm Triggers		Analytics, Network disconnect, Alarm input
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, Handover: PTZ preset,Audio clip playback
Audio In		Selectable(mic in/line in)
Audio Out		Line out
Light Type		IR LED
Light Viewable Length	IR	36m(120ft)

Analytics

Analytics Events	Normal	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection

Network

Ethernet		Metal shielded RJ-45(10/100/1000BASE-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, WiseStream II
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 6 users
	Multicast	Support
	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)
Application Programming Interface	ONVIF	S, G, T
	Others	SUNAPI(HTTP API)

Security

OS / Firmware Protect	Secure boot
User authentication	Digest authentication

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Security

Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP)
Secure Communication		HTTPS
Access Control		IP-based access control
Audit		Access / System / Event Log management
Device ID		Device certificate(Hanwha Vision Root CA)

General

Memory	RAM	4GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 32GB x 1slot

Environmental & Electrical

Operating Condition	Temperature	-10°C~+55°C(+14°F~+131°F)
	Humidity	0~90% RH(non-condensing)
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		PoE+(IEEE802.3at, Class4), 12VDC
Power Consumption	PoE	PoE+: Max 16.50W, typical 12.50W
	12VDC	12VDC: Max 13.50W, typical 10.80W

Mechanical

Color	White
Material	Aluminum
RAL Code	RAL9003
Product Dimensions	ø180x125mm(7.09x4.92"), Weight : 1.90Kg (4.19lb)
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Compatible Conduit Hole	19.1mm(3/4")(M25)
Compatible Gang Box	Single, Double, 4" Octagon, Square

Wisenet Road AI LPR/ANPR/MMCR

Solution	City Traffic Observation
Speed Description	Regular Speed
Lane Coverage	Up to 2 lanes
Speed Limit	Up to 100kmh(65mph) (with 50mm lens & Ext. IR)
Min. Forward Distance	16m(52ft)
Max. Forward Distance	36m(120ft) (with 50mm lens & Ext. IR)
Max. Horizontal Angle	25°
Max. Vertical Angle	25°

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Wisenet Road AI LPR/ANPR/MMCR

Horizontal Offset	Up to 7m(24ft)
Camera Height	Up to 7m(24ft)
Vehicle Recognition	Make : 70+ Model : 600+ Color : 11 colors
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, Vietnam, Indonesia, Bahrain, Kuwait, Oman, Qatar, KSA, UAE, South Africa, Hongkong/Taiwan (LPR only), Liechtenstein, Moldova, Monaco, San Marino, Sweden

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