

Network BOX

PNB-A9092RLPH

4K AI LPR Box Camera Kit with Enclosure and IR (L)

Key Features

4K Low-Moderate speed LPR Box Camera Kit includes AI camera, integrated LPR software, PoE+ enclosure, Wall mount bracket, IR Illuminator, 12-50mm lens, & industrial grade SD card.

- 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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Specifications

Video		Ch 1
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

Lens		
Focal Length (mm)		12-50mm
Max Aperture Ratio (F number)	Wide	F1.8 @ 12mm
	Tele	F2.4 @50mm to close
Angular Field of View	Horizontal	35°(Wide) ~ 8.5°(Tele)
	Vertical	17°(Wide) ~ 4.3°(Tele)
	Diagonal	40°(Wide) ~ 9.5°(Tele)
Min. Object Distance		2.0m ~ infinity
Focus Control		Simple focus
Lens Type		DC auto iris(IR corrected)
Mount Type		C mount, CS mount

Operational		
Day & Night		Auto(ICR)
Backlight Compensation		BLC, WDR, SSDR
Digital Noise Reduction		SSNR V
Digital Image Stabilization		Support(built-in gyro sensor)
Motion Detection	Quantity	8ea
	Shape	Rectangler zones

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Operational

Privacy Masking	Quantity	6ea
	Shape	Rectangular zones
	Color / Option	Gray, Black, White
Gain Control		Low, Middle, High
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°)
Serial Interface		RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)
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,send message by HTTP/HTTPS/TCP,Audio clip playback
Audio In		Selectable(mic in/line in), Built-in mic
Audio Out		Line out
Light Type		IR LED
Light Viewable Length	IR	40m(132ft)
IR Wavelength		850nm

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, MJPEG: VBR

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Network

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

Secure Storage		SDcard partition encrypt(AES-256)

General

Memory	RAM	4GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	1slot (32GB card preinstalled)

Environmental & Electrical

Operating Condition	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)
Power Consumption	PoE	16.5W

Mechanical

Color		Ivory
Material		Aluminum
Product Dimensions		184x460x127mm
Compatible Conduit Hole		Support conduit compatibility via optional adaptor

Wisenet Road AI LPR/ANPR/MMCR

App Type		CNN (Convolutional Neural Network) AI
Solution		City Traffic Observation
LPR Usage Condition	NA	City Traffic
Speed Description		Regular Speed
Lane Coverage_NA	1 Lane	3.6m/12ft wide (with built in IR)
	2 Lanes	8.1m/26ft wide (with built in IR)
Plate Capture Resolution_NA	1 Lane	4K
	2 Lanes	4K

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Wisenet Road AI LPR/ANPR/MMCR

Speed Limit_NA	1 Lane	Up to 140km/h (87mph)
	2 Lanes	Up to 120km/h (74mph)
Min. Forward Distance_NA	1 Lane	6m (19.7ft)
	2 Lanes	15m (49.2ft)
Max. Forward Distance_NA	1 Lane	30m (98.4ft)
	2 Lanes	30m (98.4ft)
Max. Horizontal Angle by Region	NA	30° for highway, 45° for traffic observation
	EU	30° for highway, 45° for traffic observation
Max. Vertical Angle		30°
Vehicle Recognition		Make: 100+ makes Model: 4700+ models Color: 11 colors
Available Countries		United States of America, Canada, Peru/Columbia (LPR only), Mexico
Integration Options		JSON over HTTP, UTMC 1, UTMC 2, NVR, Wisenet WAVE
VMS Support		Wisenet WAVE, Wisenet SSM, Genetec Security Center, Milestone Xprotect, Genetec AutoVu

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