



Network

BOX

## PNB-A9001LP

4K Low-Mid speed LPR/ANPR Box Camera



### Key Features

- Max. 4K resolution
- 0.03Lux@F1.2(Color), 0.003Lux@F1.2(B/W)
- Day & Night(ICR), WDR(120dB)
- 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)



SHB-4301HP



STB-4150V

# PNB-A9001LP

4K Low-Mid speed LPR/ANPR Box Camera



## Specifications

### Video

<b>Imaging Device</b>	1/1.8" CMOS
<b>Resolution</b>	3840x2160, 3072x1728, 2592x1944, 2688x1520, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800 x 600, 800 x 448, 720 x 576, 720x480, 640x480, 640x360
<b>Max. Framerate</b>	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
<b>Min. Illumination</b>	Color: 0.03Lux(F1.2, 1/30sec) B/W : 0.003Lux(F1.2, 1/30sec)
<b>Video Out</b>	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB: Micro USB Type B, 1280x720 for installation

### Lens

<b>Focus Control</b>	Simple focus
<b>Lens Type</b>	DC auto iris, P iris, Manual, I-CS
<b>Mount Type</b>	C mount, CS mount
<b>Optional Lens</b>	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

<b>Camera Title</b>	Displayed up to 85 characters
<b>Day &amp; Night</b>	Auto(ICR)
<b>Backlight Compensation</b>	BLC, WDR, SSDR
<b>Digital Noise Reduction</b>	SSNR V
<b>Digital Image Stabilization</b>	Stabilization Support(built-in gyro sensor)
<b>Motion Detection</b>	8ea, polygonal zones
<b>Privacy Masking</b>	6ea, rectangle zones - Color: Gray/Black/White
<b>Gain Control</b>	Low / Middle / High
<b>White Balance</b>	ATW / AWC / Manual / Indoor / Outdoor
<b>LDC</b>	Support
<b>Electronic Shutter Speed</b>	Minimum / Maximum / Anti flicker (1/5~1/12,000sec)
<b>Video Rotation</b>	Flip, Mirror, Hallway view(90/270)
<b>Analytics</b>	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection
<b>Serial Interface</b>	RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)
<b>Alarm I/O</b>	Input 1ea / Output 1ea / DC 12V Power(Max. 50mA) 1ea
<b>Alarm Triggers</b>	Analytics, Network disconnect, Alarm input
<b>Alarm Events</b>	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
<b>Audio In</b>	Selectable(mic in/line in/Built in mic) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
<b>Audio Out</b>	Line out, Max.output level: 1Vrms

### Network

<b>Ethernet</b>	Metal shielded RJ-45(10/100/1000 BASE-T)
<b>Video Compression</b>	H.265/H.264: Main/High, MJPEG
<b>Audio Compression</b>	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
<b>Smart Codec</b>	Manual(Sea area), WiseStream II
<b>Bitrate Control</b>	H.264/H.265: CBR or VBR MJPEG: VBR
<b>Streaming</b>	Unicast(6 users) / Multicast Multiple streaming(Up to 3 profiles)
<b>Protocol</b>	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, SRTT (TCP, UDP Unicast)
<b>Security</b>	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
<b>Application Programming Interface</b>	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform

### General

<b>Webpage Language</b>	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
<b>Edge Storage</b>	Pre-installed with 32GB Micro SD to support 10,000 LPR images
<b>Memory</b>	4096MB RAM, 512MB Flash

### Environmental & Electrical

<b>Operating Temperature / Humidity</b>	-10°C ~ +55°C(+14°F ~ +131°F) / Less than 90% RH
<b>Storage Temperature / Humidity</b>	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH
<b>Input Voltage</b>	PoE+(IEEE802.3at), 12VDC
<b>Power Consumption</b>	PoE+: Max 16.50W, typical 12.50W 12VDC: Max 13.50W, typical 10.80W

### Mechanical

<b>Color / Material</b>	Body: Black / Aluminum
<b>Product Dimensions / Weight</b>	81x67x165mm(3.19x2.64x6.48"), Weight : 0.88kg(1.94lb)

### Wisenet Road AI LPR/ANPR/MMCR

<b>Solution</b>	City Traffic	Highways
<b>Speed Description</b>	Regular Speed	High Speed
<b>Lane Coverage</b>	Up to 2 lanes (5m/18ft Wide) (with 50mm lens & Ext. IR)	Up to 2 lanes
<b>Speed limit</b>	Up to 100kmh (65mph) (with 50mm lens & Ext. IR)	Up to 140kmh (90mph)
<b>Min. Forward Distance</b>	16m (52ft)	27m (90ft)
<b>Max. Forward Distance</b>	36m (120ft) (with 50mm lens & Ext. IR)	46m (150ft)
<b>Max. Horizontal Angle</b>	25°	15°
<b>Max. Vertical Angle</b>	25°	15°
<b>Horizontal Offset</b>	Up to 7m (24ft)	Up to 4m (12ft)
<b>Camera Height</b>	Up to 7m (24ft)	
<b>Vehicle Recognition</b>	Make : 70+ Model : 600+ Color : 11	Make : 70+ Model : 600+ Color : 10
<b>Available Countries</b>	Albania, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Czech, 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/ Hongkong/ Indonesia/ Vietnam/ Taiwan/ South Africa (MMCR is not available)	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, Hongkong, Indonesia, Vietnam, Taiwan, Bahrain, Kuwait, Oman, Qatar, KSA (Kingdom of Saudi Arabia), UAE, South Africa

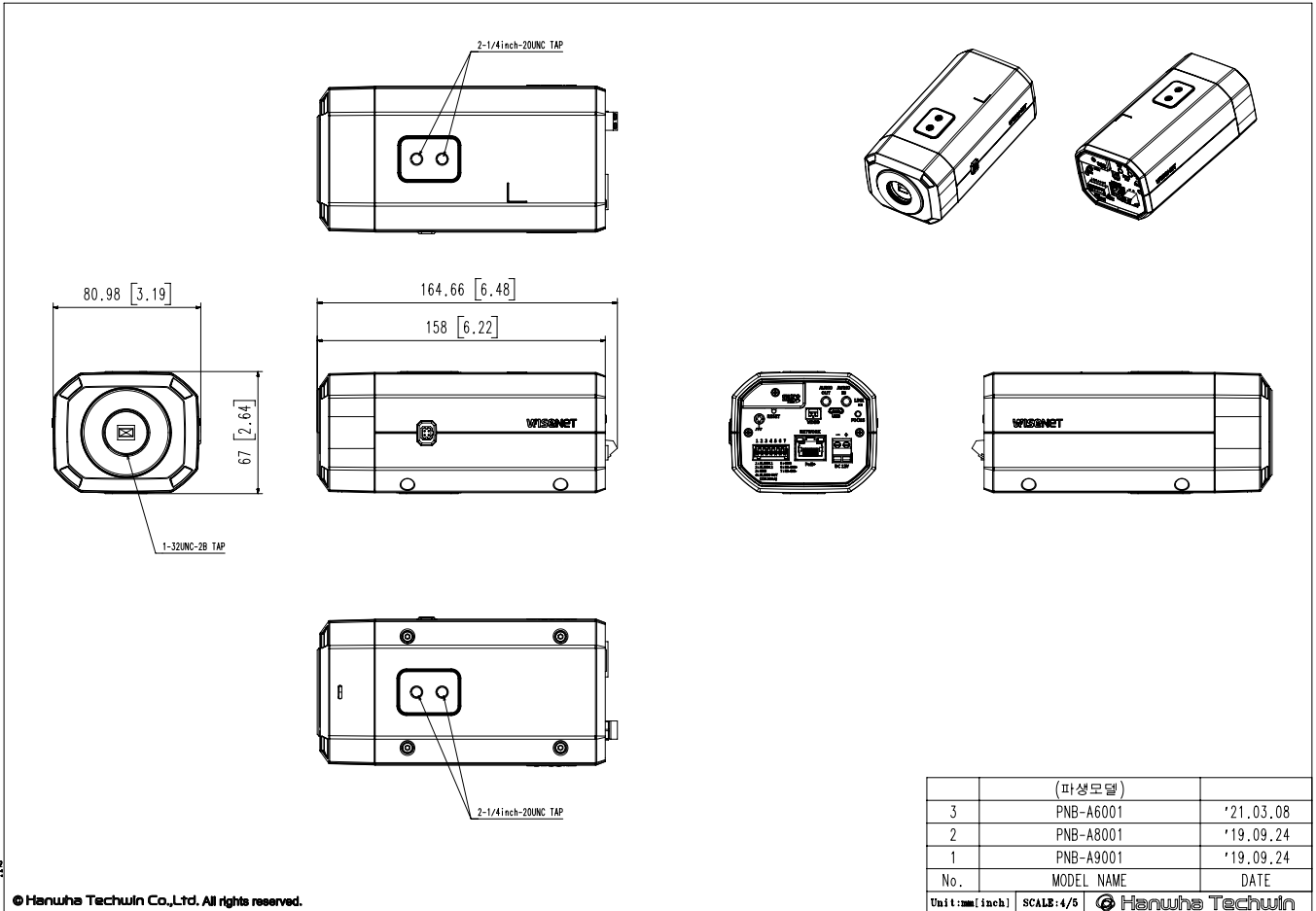
# PNB-A9001LP

4K Low-Mid speed LPR/ANPR Box Camera



CAD

Unit: mm [inch]



A2

© Hanwha Techwin Co., Ltd. All rights reserved.