

Network BOX

PNB-A9001LP

4K LPR/ANPR/MMCR ボックスカメラ

Key Features

- 最大4K解像度
- 0.03Lux@F1.2 (カラー) 、0.003Lux@F1.2 (白黒)
- デイ＆ナイト (ICR) 、WDR (120dB)
- H.265、H.264、MJPEG codec、WiseStream II
- Wisenet Road AIアプリケーション (プリインストール)
  - CNN (Convolutional Neural Network) AIにより、厳しい条件下でも精度が向上
  - ナンバープレート認識
  - 車種/モデル/色の認識
  - 白黒通知
  - SmartSearch (LP/NP、国、ブランド、モデル、色、日付)

※ 仕様にはRoad AIアプリバージョンv7.3532以上が必要です

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Specifications

映像

Imaging Device	サイズ	1/1.8"
	タイプ	CMOS
解像度		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.

レンズ

Focus Control	シンプルフォーカス
Lens Type	DC auto iris, P iris(IR corrected), 手動, I-CS
Mount Type	C mount, CS mount

技能

Day & Night		Auto(ICR)
Backlight Compensation		BLC, WDR, SSDR
Digital Noise Reduction		SSNR V
Digital Image Stabilization		Support(built-in gyro sensor)
モーション検知	Quantity	8ea
Privacy Masking	Quantity	6ea
	Shape	Rectangular zones
	Color / Option	灰色, 黒, 白
ゲイン制御		低, 中, 高
ホワイトバランス		ATW, AWC, 手動, 室内, 屋外
LDC		サポート

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技能

Electronic Shutter	モード	最小, 最大, アンチフリッカー
	Speed Range	1/5~1/12,000sec
ビデオ回転		FLIPモード, ミラー, Hallway view(90°/270°)
シリアルインターフェイス		RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)
Alarm Interface	In/Out	Input 1ea, Output 1ea
	その他	12VDC output
Alarm Triggers		分析, ネットワーク切断, アラーム入力
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP, Notification: e-mail,アラーム出力, Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,NAS recording at event triggers
オーディオ入力		Selectable(mic in/line in), Built-in MIC
オーディオ出力		Line out

分析

分析イベント	通常	焦点ぼけ検知, モーション検知, タンパリング, 音声検出, サウンド分類, 衝撃検知

ネットワーク

Ethernet		Metal shielded RJ-45(10/100/1000BASE-T)
映像圧縮		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		手動, WiseStream II
ビットレートコントロール		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	最大 10ユーザー
	マルチキャスト	サポート
	Multiple Streaming	最大 5プロファイル
プロトコル		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
	その他	SUNAPI(HTTP API)

セキュリティ

OS / Firmware Protect	Secure boot
ユーザー認証	ダイジェスト認証
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP)
Secure Communication	HTTPS
Access Control	IP-based access control
Audit	Access / System / Event Log management

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セキュリティ

デバイスID		Device certificate(Hanwha Vision Root CA)

一般

メモリ	RAM	4GB
	フラッシュ	512MB
Edge Storage	Micro SD/SDHC/SDXC	1slot (32GB card preinstalled) dedicated to strong LPR images from Wisenet Road AI app only (not for video recording)

Environmental & Electrical

動作条件	温度	-10°C~+55°C(+14°F~+131°F)
	湿度	0~90% RH(non-condensing)
保管条件	温度	-50°C~+60°C(-58°F~+140°F)
	湿度	0~90% RH(non-condensing)
Input Voltage		PoE+(IEEE802.3at, Class4), 12VDC
消費電力	PoE	PoE+: Max 16.50W, typical 12.50W
	12VDC	12VDC: Max 13.50W, typical 10.80W

Mechanical

カラー	黒
材料	アルミニウム
Product Dimensions	81x67x165mm(3.19x2.64x6.48")
Product Weight	0.88kg(1.94lb)

Wisenet Road AI LPR/ANPR/MMCR

App Type		CNN (Convolutional Neural Network) AI
LPR Usage Condition	NA	City Traffic
	EU	City Traffic
Speed Description by Region	NA	Regular Speed
	EU	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)
Lane Coverage_EU	1 Lane	3.6m/12ft wide (with built in IR)
	2 Lanes	8.1m/26ft wide (with built in IR)
	3 Lanes	16.2m/53ft wide (with built in IR)
Plate Capture Resolution_NA	1 Lane	4K
	2 Lanes	4K
Plate Capture Resolution_EU	1 Lane	4K
	2 Lanes	4K
	3 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)
Speed Limit_EU	1 Lane	Up to 140km/h (87mph)
	2 Lanes	Up to 140km/h (87mph)
	3 Lanes	Up to 70km/h (43mph)
Min. Forward Distance_NA	1 Lane	6m (19.7ft)
	2 Lanes	15m (49.2ft)
Min. Forward Distance_EU	1 Lane	6m (19.7ft)
	2 Lanes	9m (29.5ft)
	3 Lanes	15m (49.2ft)
Max. Forward Distance_NA	1 Lane	30m (98.4ft)
	2 Lanes	30m (98.4ft)
Max. Forward Distance_EU	1 Lane	30m (98.4ft)
	2 Lanes	30m (98.4ft)
	3 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 by Region	NA	30°
	EU	30°
Vehicle Recognition		Make: 100+ makes Model: 4700+ models 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, Vietnam, Indonesia, Bahrain, クウェート, Oman, Qatar, KSA, UAE, South Africa, Hongkong/Taiwan (LPR only), Australia/New Zealand (LPR only), Peru/Columbia (LPR only), Liechtenstein, Mexico, Moldova, Monaco, San Marino, Sweden, Croatia, Czech Republic, Gibraltar, Israel, Kosovo, Macedonia, Mongolia
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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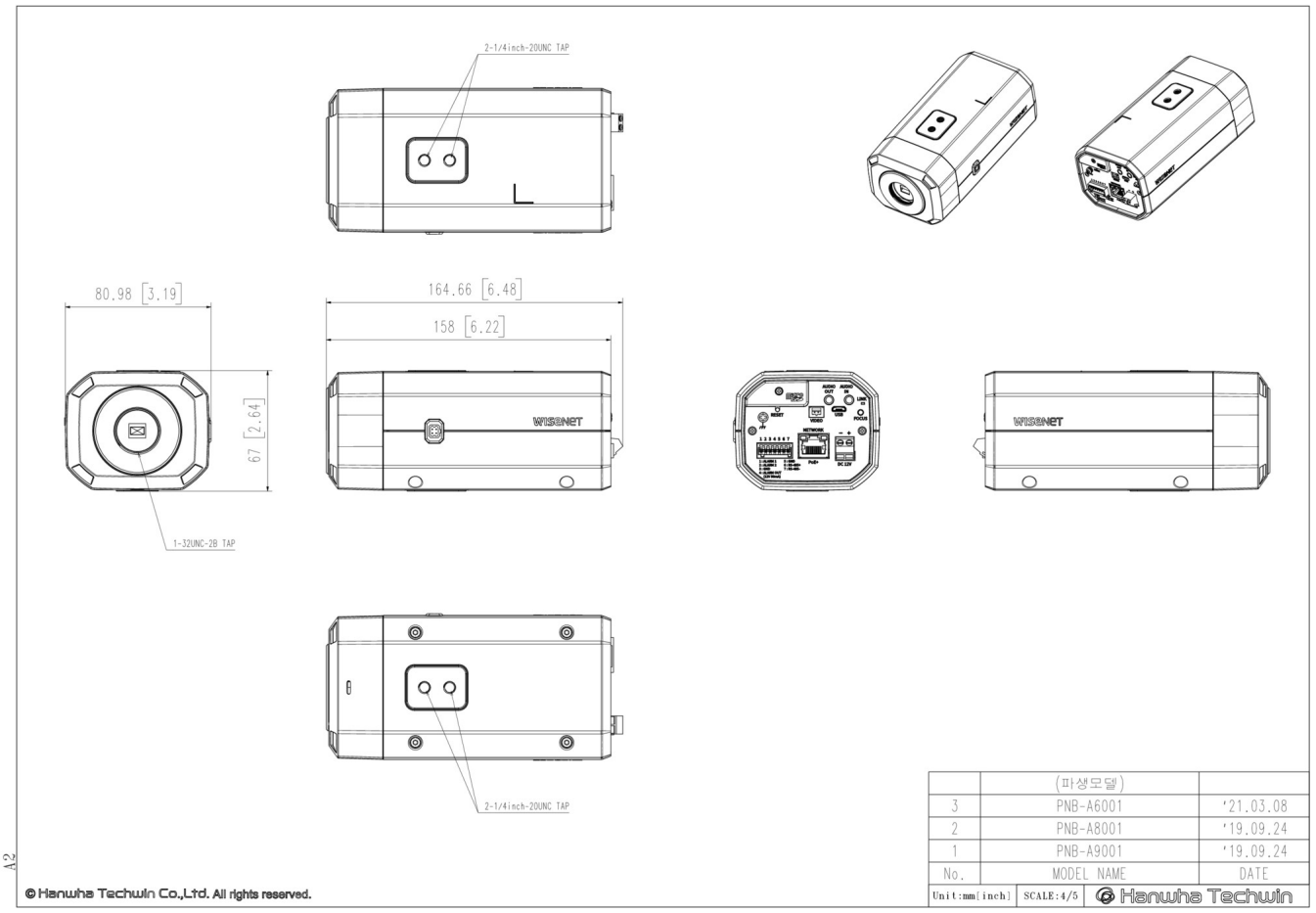
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CAD

Unit: mm [inch]



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Compatible Devices



STB-4150V



SHB-4301HP

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