

Network Bullet

TNO-7180RLP

High-speed License Plate Capture Camera

Key Features

- 3MP, Color Global Shutter Sensor
- 6.8~120mm(18x) motorized varifocal
- H.265, H.264, MJPEG codec
- Maximum 60fps@3MP all resolutions (H.265, H.264, MJPEG)
- Edge Storage Pre-installed with 32GB Micro SD to support 10,000 LPR images
- WiseStreamII support
- HPoE, 12VDC
- IR Viewable Length 50m(164.04ft)
- IP66, IK10, NEMA 4X, NEMA TS 2(2.2.8, 2.2.9)
- 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)

*PoE power supply is not included, must be purchased separately if required

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Specifications

映像

Imaging Device	サイズ	1/1.8"
	タイプ	CMOS
解像度		2048x1536, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264	55fps/50fps(55Hz/50Hz)@3MP mode / 60fps/50fps(60Hz/50Hz)@2MP mode
	MJPEG	5fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.1
	BW(1/30sec, 30IRE)	0.01
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

Focal Length (mm)		6.8~120
Zoom Ratio	Optical	18x
Max Aperture Ratio (F number)	Wide	1.6
	Tele	4.13
視野角度	Horizontal	54.5°~3.4°
	Vertical	42.3°~2.5°
Min. Object Distance		2m(6.5ft)
Focus Control		シンプルフォーカス, フォーカス保存
Lens Type		DC auto iris

技能

Day & Night		Auto(ICR)
Backlight Compensation		BLC, SSDR
Digital Noise Reduction		SSNR V
モーション検知	Quantity	8ea
	Shape	8point Polygonal zones

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技能

Privacy Masking	Quantity	6ea
	Shape	Rectangular zones
	Color / Option	灰色, 緑, Red, 青, 黒, 白
ゲイン制御		サポート
ホワイトバランス		ATW, AWC, 手動, 室内, 屋外
Electronic Shutter	モード	最小, 最大, アンチフリッカー, Global shutter mode
	Speed Range	1/25~1/12,000sec
ビデオ回転		FLIPモード, ミラー
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	4 configurable I/O ports
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, Recording: SD/SDHC/SDXC or NAS recording at event triggers,アラーム出力, Handover: PTZ preset,send message by HTTP/HTTPS/TCP
オーディオ入力		Selectable(mic in/line in)
オーディオ出力		Line out
Light Type		IR LED
Light Viewable Length	IR	50m(164ft)
IR Wavelength		850nm

分析

分析イベント	通常	モーション検知, タンパリング, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction)

ネットワーク

Ethernet		RJ-45(10/100/1000BASE-T)
映像圧縮		H.265/H.264: Main/Baseline/High, MJPEG
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 20ユーザー
	マルチキャスト	サポート
	Multiple Streaming	最大 10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), PIM-SM
Application Programming Interface	ONVIF	s, G, T
	その他	SUNAPI(HTTP API), Hanwha Vision Open Platform

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セキュリティ

OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
ユーザー認証	ダイジェスト認証, Prevent brute-force attack
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS(WebSocket Secure)
Access Control	IP-based access control
Data Protect	Encryption credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management
デバイスID	Device certificate(Hanwha Vision Root CA)
Secure Storage	TPM(Trusted platform module)
Security Certificate	TPM 2.0 with FIPS 140-2 level2

一般

メモリ	RAM	2GB
	フラッシュ	256MB
Edge Storage	Micro SD/SDHC/SDXC	1slot (32GB card preinstalled)

Environmental & Electrical

動作条件	温度	-40°C~+55°C(-40°F~+131°F)
	湿度	0~95% RH(non-condensing)
	その他	Start up should be done at above -40°C
保管条件	温度	-50°C~+60°C(-58°F~+140°F)
	湿度	0~95% RH(non-condensing)
Input Voltage		PoE++(IEEE802.3bt type3, Class6), 12VDC
消費電力	PoE	Max. 50W, typical 27W
	12VDC	Max. 47.5W, typical 25W

Mechanical

カラー	白
材料	アルミニウム
RAL Code	RAL9003
Product Dimensions	186.9(W)x 259.3(H)x293.7(D)mm(7.32x10.2x11.56")
Product Weight	4,762g(10.5 lb)

Certifications & Standards

環境	IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X, NEMA TS 2-2013 (2.2.8, 2.2.9)

Wisenet Road AI LPR/ANPR/MMCR

Solution	Highways
Speed Description	High Speed

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Wisenet Road AI LPR/ANPR/MMCR

Lane Coverage	最大 2 lanes
Speed Limit	最大 200kmh(125mph) for 2 lanes
Min. Forward Distance	27m(90ft)
Max. Forward Distance	46m(150ft)
Max. Horizontal Angle	15°
Max. Vertical Angle	15°
Horizontal Offset	最大 4m(12ft)
カメラ高さ	最大 7m(24ft)
Vehicle Recognition	Make : 70+ Model : 600+ Color : 11
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, UAE, Liechtenstein, Mexico, Moldova, Monaco, San Marino, Sweden

** NOTE: For US version, lane coverage is up to 1 lane and speed limit is up to 100mph

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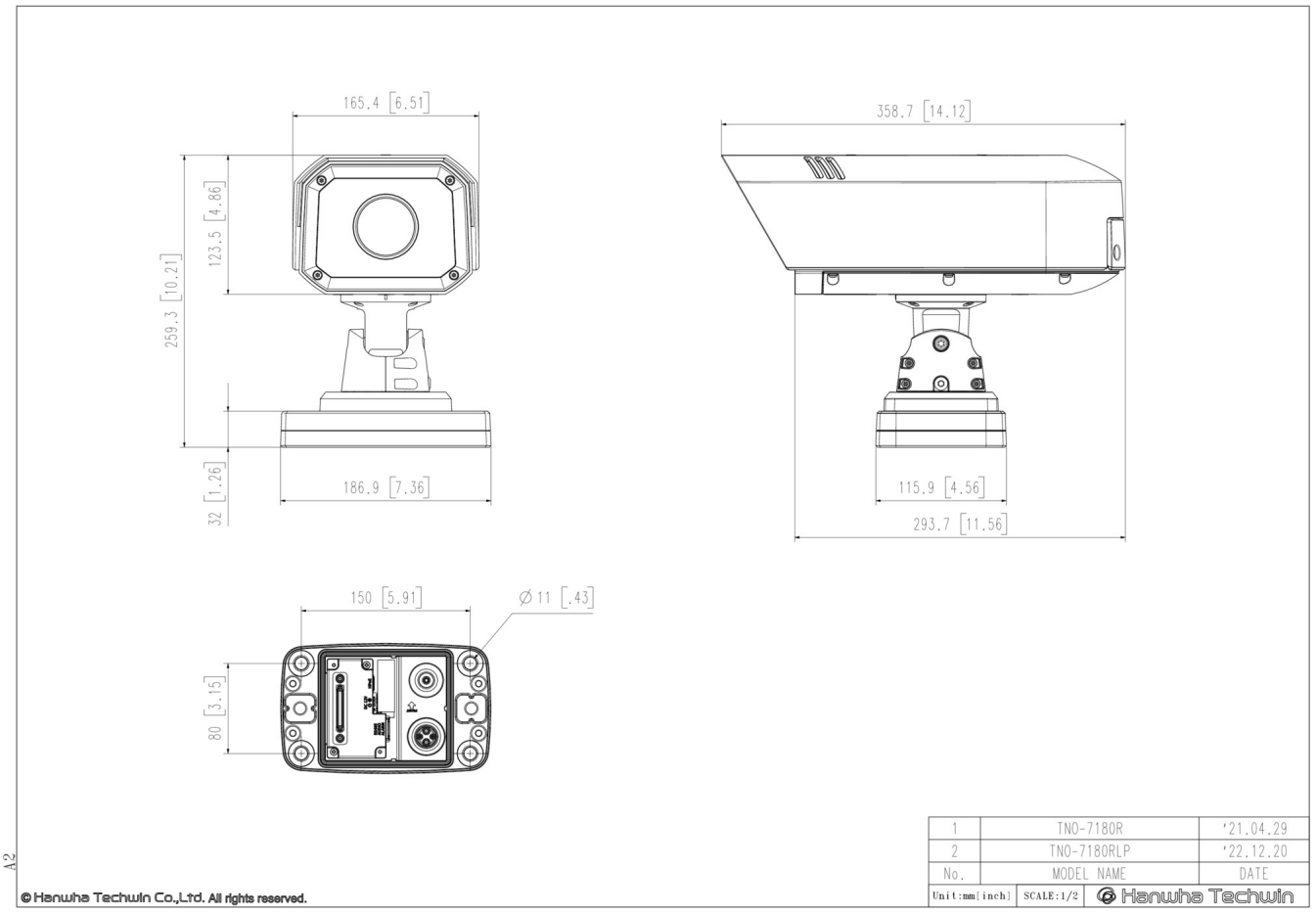
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CAD

Unit: mm [inch]



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