Hanwha Vision

Network | Multi-sensor

PNM-C19183RVTP

5MP 3CH fixed + 4MP 18x PTZ AI Camera

Key Features

- Full coverage All-in-One design (5MP 3CH fixed + 4MP 18x PTZ)
- Compact size (ø250)
- Object detection (Person/Face/Vehicle/License plate), IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion),
- Business intelligence based on AI engine : People/Vehicle counting
- Support Alarm/Audio via optional SPM-4210 I/O box
- Up to 15m IR distance
- Auto calibration
- Support Smart Zoom (Advanced Handover)
- WiseStream (Based on AI engine)
- Secure element (FIPS 140-3 level3, CC EAL6+), SBOM

Compatible Devices

SPM-4210

SPB-MDC41V

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5MP 3CH fixed + 4MP 18x PTZ AI Camera

Specifications

Video	3CH camera	PTZ
Imaging Device	1/2.8" CMOS	
Resolution	2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	2592x1520, 2560x1440, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(@5MP Max. 5fps)	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps(@4MP Max. 5fps)
Min. Illumination	Color: 0.08Lux(F2.0, 1/30sec, 30IRE) BW: 0.008Lux(F2.0, 1/30sec, 30IRE), 0Lux(IR LED on)	Color: 0.05Lux(F2.0, 1/30sec, 30IRE) BW: 0.005Lux(F2.0, 1/30sec, 30IRE)
Video Out	USB: Micro USB Type C for installation	

Lens		
Focal Length (Zoom Ratio)	2.4mm fixed focal	5.42~98.29mm(18x) zoom(digital 32x, total 576x zoom)
Max. Aperture Ratio	F2.0	F2.0(Wide)~F3.27(Tele)
Angular Field of View	H: 123° / V: 91° / D: 159°	H: 53.1°(Wide)~3.39°(Tele) V: 31.75°(Wide)~1.98°(Tele) D: 60.8°(Wide)~3.92°(Tele)
Min. Object Distance	0.5m(1.64ft)	5.0m(16.4ft)
Focus Control	Fixed	Oneshot AF, Focus save
Lens Type	Fixed iris	DC auto iris with hall sensor

Pan / Tilt / Rotate	
Pan Range	360° Endless
Pan Speed	Max: 600°/sec, Manual: 0.024°/sec~250°/sec
Tilt Range	0°~90°
Tilt Speed	Max: 500°/sec, Manual: 0.024°/sec~250°/sec
Sequence	Preset(300ea), Swing, Group(6ea), Trace(4ea), Tour, Auto Run, Schedule
Preset Accuracy	Up to ±0.2°

Operational		
Camera Title	Displayed up to 85 characters	
Direction Indicator		Support
Day & Night	Auto(ICR)	
Backlight Compensation	BLC, WDR, SSDR	BLC, HLC, WDR, SSDR
Wide Dynamic Range	extremeWDR(120dB)	
Digital Noise Reduction	SSNR V , WiseNR II (Based on AI engine)	
Digital Image Stabilization		Support
Defog	Support	

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Motion Detection	8ea, 8point Polygonal zones	
Privacy Masking	12ea, 4point quadrangle zones - Color: Grey/Green/Red/Blue/Black/White	32ea, 4point quadrangle zones - Color: Grey/Green/Red/Blue/Black/White
Gain Control	Low / Middle / High	Off / Max Gain / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor	ATW / Narrow ATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium
LDC	Support	
Electronic Shutter Speed	Minimum / Maximum / prefer shutter / Anti flicker(1/5~1/12,000sec) Prefer shutter control(Based on AI engine)	
Video Rotation		Flip, Mirror
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color), Person(Clothing top/bottom color) Support BestShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection Analytics events - Tampering, Virtual area(Appear/Disappear) * Audio detection via optional I/O box	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection Analytics events - Tampering, Virtual area(Appear/Disappear), Fog detection * Audio detection via optional I/O box
Business Intelligence	Based on AI engine: People/Vehicle counting, Queue management, Heatmap	
Alarm I/O	* Support Alarm I/O via optional SPM-4210 I/O box	
Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription	
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 - MQTT: publication - Smart zoom	
Audio In	* Support Audio via optional SPM-4210 I/O box	
Audio Out	* Support Audio via optional SPM-4210 I/O box	
Light Type	IR LED	
Light Viewable Length	15m(49.21ft) 10m(32.8ft) under 3m height installation	
IR Wavelength	850nm	
Auto Tracking		Object auto tracking(Person/Vehicle), Target lock tracking

Network		
Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)	
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG	
Smart Codec	Manual(5ea area), WiseStream(Based on AI engine)	Manual(5ea area), WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR	
Streaming	Unicast(5 users per channel) / Multicast Multiple streaming(Up to 4 profiles per channel)	Unicast(5 users) / Multicast 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(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT	
Application Programming Interface	ONVIF Profile S/T/G/M SUNAPI(HTTP API) Hanwha vision open platform	

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Security	
OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authenticaton, Prevent brute-force attack
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP
Access Control	IP-based access control
Data Protect	Encryption Credentials, Encrypt compress for live recording file
Audit	Access / System / Event Log management
Device ID	Device certificate(Hanwha Vision Root CA)
Secure Storage	Secure element, SDcard partition encrypt
Supply Chain Security	SBOM
Security Certificate	Secure element(FIPS 140-3 level3, CC EAL6+)

General		
Webpage Language	English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian	
Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 2TB(1TBx2)	
Memory	8GB RAM, 8GB eMMC	4GB RAM, 512MB Flash

Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+55°C(-40°F~+131°F) * Start up should be done at above -35°C 0~100% RH(condensing), Humidity control with AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
EPA(Effective Projected Area)	0.04㎡
Certification	IP66, NEMA4X, IK10
Input Voltage	PoE++(IEEE802.3bt type3, Class6)
Power Consumption	PoE++: Max 42W, typical 32W

Mechanical	
Color / Material	White / Aluminum Hard-coated dome bubble
Material Management	RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018) REACH(Regulation (EC) No. 1907/2006) Conflict mineral policy(Section 1502 of US Dodd Frank Act)
RAL Code	RAL9003
Product Dimensions / Weight	ø251.4x212mm(ø9.9x8.35") / 4,800g(10.58lb)
Compatible Conduit hole / Gangbox	19.1mm(3/4")(M25) Single, double, 4" octagon, 4" square

Certifications & Standards	
EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class A KS C 9832 Class A , KS C 9835
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC 62471
Environment	EN IEC 63000 IEC 60529 IP66, IEC 62262 IK10 NEMA 250 type 4X

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Compatible Models	
Hanging Adaptor	SBP-250HMW
Ceiling Mount (Assy)	SBP-150CMI/300CMI, SBP-300CMW1/900CMW, SBP-300CMTW, SBP-300CMTS
Ceiling Mount (Single Unit)	SBP-180CMB/140CMB, SBP-180CMS, SBP-900CMP/300CMP/150CMP, SBP-C15P, SBP-C15H
Wall Mount	SBP-400WMW/250WMW, SBP-300WMW
Wall Mount Adaptor	SBP-300BW1, SBP-115PFA
Pole Mount	SBP-300PMW2
Corner Mount	SBP-300KMW1, SBP-156KMW
Parapet Mount	SBP-300LMW, SBP-156LMW1
Cabinet	SBP-300NBW, SBP-150NBW
Interface Box	SPM-4210
Other Compatible Models	SBP-315C, SPO-8315

DORI (EN62676-4 standard)		
Detect (25PPM/ 8PPF)	28.1m(92.35ft)	Wide: 103.7m(340.38ft) / Tele: 1751.8m(5474.46ft)
Observe (63PPM/ 19PPF)	11.3m(36.94ft)	Wide: 41.5m(136.15ft) / Tele: 700.7m(2298.99ft)
Recognize (125PPM/ 38PPF)	5.6m(18.47ft)	Wide: 20.7m(68.08ft) / Tele: 350.4m(1149.49ft)
Identify (250PPM/ 76PPF)	2.8m(9.23ft)	Wide: 10.4m(34.04ft) / Tele: 175.2m(574.75ft)

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