



Network

PTZ

XNP-C9310R

4K 31x AI IR PTZ Camera



Key Features

- Maximum 4K resolution
- 6.91 ~ 214.7mm(31x) motorised varifocal
- IR viewable length Wise IR 250m(820ft)
- Color: 0.06 Lux(F1.36, 1/30sec, 30 IRE) / BW: 0.006 Lux(F1.36, IR LED Off), 0Lux (IR LED On)
- Day & Night(ICR), WDR(120dB), WiseNR II (Using AI engine), prefer shutter
- H.265, H.264, MJPEG codec, WiseStream II, WiseStreamIII (Using AI engine)
- DIS with built-in Gyro sensor
- Reinforced durability (IP66/IP67, IK10, NEMA4X)
- ONVIF Profile S/G/T/M, SUNAPI(HTTP API), Wisenet open platform
- Next level cybersecurity (TPM with FIPS 140-2 level2)

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Specifications

Video

Imaging Device	Size	1/1.8"
	Type	CMOS
Resolution	2592x1944, 320x240, 1280x720, 1280x1024, 720x480, 1280x960, 2592x1464, 1600x1200, 640x360, 640x480, 1024x768, 800x600, 800x448, 3840x2160, 720x576, 1920x1080	
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@8MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.06
	BW(1/30sec, 30IRE)	0.006

Lens

Focal Length (mm)	6.91 ~ 214.7	
Zoom Ratio	Optical	31x
	Digital	32x
Max Aperture Ratio (F number)	Wide	1.36
	Tele	4.6
Angular Field of View	Horizontal	60.6°~2.59°
	Vertical	35.1°~1.45°
	Diagonal	68.8°~2.97°
Min. Object Distance	3m(9.84ft)	
Focus Control	Oneshot AF, Auto, Wise auto focus, Focus scan, Manual, Focus save	
Lens Type	P iris(IR corrected)	

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	360° Endless
	Tilt	90°~20°
Pan Speed	Preset	Max. 550°/sec
	Manual	0.024°/sec~200°/sec
Tilt Speed	Preset	Max. 550°/sec
	Manual	0.024°/sec~200°/sec

Pan / Tilt / Rotate

Sequence	Auto Run, Group(6ea), Preset(300ea), Tour, Trace, Schedule, Swing
Preset Accuracy	±0.05°

Operational

Direction Indicator	Support	
Day & Night	Auto(ICR)	
Backlight Compensation	SSDR, BLC, WDR, HLC	
Wide Dynamic Range (dB)	120	
Digital Noise Reduction	SSNR V , WiseNR II (Based on AI engine)	
Digital Image Stabilization	Support(built-in gyro sensor)	
Defog	Support	
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	4point Quadrangle zones
	Color / Option	Black, Red, Gray, Mosaic, White, Blue, Green
Gain Control	Max gain, Manual, Off	
White Balance	AWC, Outdoor, NarrowATW, ATW, Indoor, Sodium, Manual, Mercury	
Electronic Shutter	Mode	Minimum, Prefer shutter control(Based on AI engine), Maximum, Anti flicker
	Speed Range	2~1/12,000sec
Video Rotation	Flip&Mirror	
Alarm Interface	Others	Support alarm I/O via optional I/O box
Alarm Triggers		MQTT subscription, Network disconnect, Analytics, Time schedule, Alarm input
Alarm Events When Alarm Trigger Occurred		Alarm output, Handover: PTZ preset, send message by HTTP/HTTPS/TCP, MQTT: publication, File upload(image): e-mail/FTP/SFTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers, File upload(video clip): FTP/SFTP
Audio In		Support via optional I/O box
Audio Out		Support via optional I/O box
Light Type		IR LED
Light Viewable Length	IR	Wise IR 250m(820ft)
IR Wavelength		850nm
Water Removal		Support(Spin Dry, Lens heater)
Auto Tracking		Target lock tracking, Object auto tracking(Person/Vehicle), Support

Analytics

Classified Object Type		Person, Vehicle, License plate, Face
Attributes	Vehicle	Type(car, bus, truck, motorcycle, bicycle)
Thumbnail		DetectionShot

Analytics

Analytics Events	Based on AI Engine	Object detection, Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection, Virtual line(Crossing/Direction)
	Normal	Audio detection, Fog detection, Virtual area(Appear/Disappear), Shock detection, Tampering, Sound classification

Network

Ethernet	Metal shielded RJ-45(10/100BASE-T)	
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG	
Smart Codec	Manual, WiseStreamIII	
Bitrate Control	H.265/H.264: CBR or VBR, MJPEG: VBR	
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles
Protocol	CDP, RTP(UDP), NTCIP 1205, IPv4, HTTPS, FTP, NTP, TCP/IP, ARP, DHCP, UDP/IP, Bonjour, DNS, SNMPv1/v2c/v3(MIB-2), RTP(TCP), SSL/TLS, QoS, SMTP, DDNS, IGMP, HTTP, SFTP, UPnP, LLDP, MQTT, RTSP, ICMP, SRTP(TCP, UDP Unicast), RTCP, IPv6	
Application Programming Interface	ONVIF	M, T, G, S
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection	Support	

Security

OS / Firmware Protect	Secure boot, Encrypted firmware, Signed firmware	
User authentication	Prevent brute-force attack, Digest authentication	
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)	
Secure Communication	SRTP, 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	
Device ID	Device certificate(Hanwha Vision Root CA)	
Secure Storage	HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256), TPM(Trusted platform module)	
Security Certificate	TPM 2.0 with FIPS 140-2 level2	

General

Memory	RAM	4GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 512GB x 2slot(Total 1TB)

Environmental & Electrical

Operating Condition	Temperature	-50°C~+55°C(-58°F~+131°F)
	Humidity	0~100% RH(condensing)
	Others	Humidity control with AIR vent, Start up should be done at above -30°C, +74°C(+165°F) (Max) based on NEMA-TS 2(2.2.7)
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		HPoE(IEEE802.3bt type4, Class8)
Power Consumption	PoE	Max. 62W, typical 23W

Mechanical

Color	Black, White
Material	Hard-coated dome , PC(Polycarbonate), Aluminum
RAL Code	RAL9003, RAL9005
Product Dimensions	ø188x264.9mm(7.40x10.47")
Product Weight	4,400g(9.70lb)

Certifications & Standards

EMC	FCC 47 CFR 15 Subpart B Class A, VCCI CISPR 32 Class A, ICES-3(A)/NMB-3(A), RCM AS-NZS CISPR 32 Class A, CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, KS C 9832 Class A, KS C 9835
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment	NEMA 250 type 4X, IEC 62262 IK10, IEC 60529 IP66, IEC/EN 63000, NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), IEC 60529 IP67

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	131.4m(431.19ft)
	Tele	3397.3m(11146.16ft)
Observe (63PPM/ 19PPF)	Wide	52.6m(172.48ft)
	Tele	1358.9m(4458.46ft)
Recognize (125PPM/ 38PPF)	Wide	26.3m(86.24ft)
	Tele	679.5m(2229.23ft)
Identify (250PPM/ 76PPF)	Wide	13.1m(43.12ft)
	Tele	339.7m(1114.62ft)

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CAD

Unit: mm [inch]

