X series XNP-C9310R









XNP-C9310R

4K 31x AI IR PTZ Camera











- 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), OLux (IR LED
- 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)



XNP-C9310R

4K 31x AI IR PTZ Camera







Specifications

Video	
Imaging Device	1/1.8" CMOS
Resolution	3840x2160, 2592x1944, 2592x1464, 1920x1080, 1600x1200, 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(60Hz/50Hz) (@8MP Max. 5fps)
Min. Illumination	Color: 0.06 Lux(F1.36, 1/30sec, 30 IRE) BW: 0.006 Lux(F1.36, IR LED Off), OLux (IR LED On)
Lens	
Focal Length (Zoom Ratio)	6.91 ~ 214.7mm(31x) zoom (digital 32x, total 992x zoom) Support Quick zoom
Optical Zoom	31x
Max. Aperture Ratio	F1.36(Wide)~F4.6(Tele)
Angular Field of View	H:60.6°(Wide)~2.59°(Tele) V:35.1°(Wide)~1.45°(Tele) D:68.8°(Wide)~2.97°(Tele)
Min. Object Distance	3m(9.84ft)
Focus Control	Oneshot AF, Focus save, Focus scan, Wise auto focus
Lens Type	P-iris(IR corrected)
Pan / Tilt / Rotate	
Pan Range	360° Endless
Pan Speed	Preset: 550°/sec, Manual: 0.024°/sec~200°/sec
Tilt Range	110° (90° ~ -20°)
Tilt Speed	Preset: 550°/sec, Manual: 0.024°/sec~200°/sec
Sequence	Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Preset Accuracy	±0.05° (±20°C by temperature at preset setting)
Operational	
Camera Title	Displayed up to 85 characters
Direction Indicator	Support
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNR V
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point polygonal zones

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Gain Control Off Max gain / Manual White Balance ATW / NarrowaTW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium Electronic Shutter Speed	Privacy Masking	32ea, 4point quadrangle zones - Color: Gray/Green/Red/Blue/Black/White - Mosaic
Electronic Shutter Speed Minimum / Maximum / Anti flicker (2-1/12,000sec) Video Rotation Fip&Mirror Fip&Mirror Analytics Classified object type : Person/Face/Nehicle/License plate Artiputes: Vehicle/Typeca-Person/Face/Nehicle/License plate Artiputes: Vehicle/Typeca-Publytruck/motorcycle/bicycle) Support Detections/bot Analytics were the Saed on al engine - Object detection. Virtual areal(Appear/Disappear) - "Audio detection. Sund classification(Viria) optional I/O box SPM-4210) Alarm Triggers Analytics, Network disconnect, Alarm input(Via optional I/O box SPM-4210). Time schedule, MQTT subscription Alarm Events When alarm trigger occurred - "Pite upload/image]: e- mail/TFI/SFTP - "Notification: e- mail - "Recording: SD/SDNC/SDNC or MAS recording at event triggers - "Alarm devent" Ty Try press, team dessage by HTTP/HTTPS/TCP - MGTT: publication - "Alarm output (Via optional I/O box SPM-4210) Light Type IR LED (850mm) RY (viewable Length - Wise IR 250m/820th - Water Removal Support - Object auto tracking/Person/Vehicle) - Target lock tracking - Support - Object auto tracking/Person/Vehicle) - Target lock tracking - Support - Object auto tracking/Person/Vehicle) - Target lock tracking - Streaming - Unicast(20 users) / Multicast - Multicast (20 users) /	Gain Control	Off / Max gain / Manual
Prefer shutter control(Based on Al engine) Wheo Rotation Analytics Alsaified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Hypecae/Dustruck/motorcycle/bicycle) Support Decection/Shoc Support Decection/Shoc All engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection Analytics events - Tampering, Fog detection, Shock detection, Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection Analytics, events - Tampering, Fog detection, Shock detection, Virtual area(Appear/Disappear) - Audio detection - Sound classification(Vio optional I/O box SPM-4210), Time schedule, MQTT subscription Alarm Events When alarm trigger occurred - File upload/filmagp): e-mail/ETF/SETP	White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium
Analytics Classified object type: Person/Esex-Whitelpl.License plate Attributes: Variolet Types (Preport/hus truck/motorcycle) bicycle) Support. DetectionShot Analytics events based on Al engine - Object detection, Virtual inelCrossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection Analytics events and on tection Analytics events and on tection Analytics events and on the control of the property of the Control of Analytics events and the Control of Analytics events	Electronic Shutter Speed	
Attributes: Vehicle (Typecary/bus/truck/motorcycle/bicycle) Support Detection/Shot Analytics events based on al engine - Object detection, Wintual area(Loitering/Intrusion/Enter/Exit), Analytics events - Tampering Fog detection, Shock detection, Virtual area(Appear/Disappear) - Audio detection, Sound classification(Via optional I/O box SPM-4210). Time schedule, MQTT subscription Alarm Triggers - Analytics, Network disconnect, Alarm input (Via optional I/O box SPM-4210). Time schedule, MQTT subscription Alarm Events - When alarm trigger occurred - File uploadinage): e-mail/FP/SFTP - Hottlication (Veramic) - File uploadinage): e-mail/FP/SFTP - Hottlication (Veramic) - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Hottlication (Veramic) - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Headower: PTZ preset, send message by HTTP/HTTPS/TCP - Hottlication (Veramic) - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Headower: PTZ preset, send message by HTTP/HTTPS/TCP - Hottlication (Veramic) - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Headower: PTZ preset, send message by HTTP/HTTPS/TCP - Hottlication (Veramic) - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Headower: PTZ preset, send message by HTTP/HTTPS/TCP - Hottlication (Veramic) - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Headower: PTZ preset, send message by HTTP/HTTPS/TCP - Hottlication - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Headower: PTZ preset, Su/STM Su/SSIM/ESXXC or NAS recording at event triggers - Headower: PTZ preset, Su/TLS, Detection (Ptz) - Hottlication (Ptz) - Recording: Su/SSIM/CSXXC or NAS recording at event triggers - Headower: PTZ preset, Su/TLS, Detection (Ptz) - Hottlication (Ptz) - Headower: PTZ preset, Su/TLS, Detection (Ptz) - Headower: PTZ preset, Su/TLS, Detection (Ptz) - Headower: PTZ preset, Su/TL	Video Rotation	Flip&Mirror
Alarm Events Alarm	Analytics	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, Fog detection, Shock detection, Virtual area (Appear/Disappear)
File upload(image 1: email/FIP/SFTP File upload(image 1: email/File	Alarm Triggers	
IR Viewable Length Wise IR 250m(820ft) Water Removal Support (Spin dry, Lens heater) Auto Tracking Support Object auto tracking (Person/Vehicle) Target lock tracking Network Ethernet Metal shielded RJ-45(10/100BASE-T) Video Compression H.265/H.264: Main/Baseline/High, MJPEG Smart Codec Manual(Sea area), WiseStream III, WiseStreamIII(Based on Al engine) Bitrate Control H.264/H.265: CBR or VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SMMPV1/V2C/V3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP 1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAP(HTTP API) Hanwha Vision Open Platform Security OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks Network authentication HTTPS, WSS(WebSocket Secure), SRTP Access Control IP-based access control Data Protect Encryption Credentials, Encrypt compress for live recording file export Audit Access / System / Event Log management	Alarm Events	 File upload(image): e-mail/FTP/SFTP FIle upload(video clip): FTP/SFTP Notification: e-mail Recording: SD/SDHC/SDXC or NAS recording at event triggers Handover: PTZ preset, send message by HTTP/HTTPS/TCP MQTT: publication
Water Removal Support (Spin dry, Lens heater) Auto Tracking Support Object auto tracking (Person/Vehicle) Target lock tracking Network Proceed of the procession Ethernet Metal shielded RJ-45(10/100BASE-T) Video Compression H.265/H.264: Main/Baseline/High, MJPEG Smart Codec Manual(Sea area), WiseStream II, WiseStreamIII (Based on AI engine) Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol UPv4, IPv6, TCP/IP, BTP, IPUDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SMMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SKTP(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Security Security OS/ Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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	Light Type	IR LED (850nm)
Auto Tracking Support Object auto tracking(Person/Vehicle) Target lock tracking Network Ethernet Metal shielded R.J-45(10/100BASE-T) Video Compression H.265/H.264: Main/Baseline/High, M.JPEG Smart Codec Manual(Sea area), WiseStream II, WiseStreamIII(Based on AI engine) Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SMMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Pincast), NTCIP1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Security OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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 export Audit Access/ System / Event Log management	IR Viewable Length	Wise IR 250m(820ft)
Network Ethernet Metal shielded RJ-45(10/100BASE-T) Video Compression H.265/H.264: Main/Baseline/High, MJPEG Smart Codec Manual(Sea area), WiseStream II, WiseStream III(Based on AI engine) Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SMMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, STRTP(TCP, UDP VIncast), NTCIP1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Security OS / Firmware Protect Encrypted Firmware. Secure boot. Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks Network authentication HTTPS, WSS(WebSocket Secure), SRTP Access Control IP-based access control Data Protect Encryption Credentials, Encrypt compress for live recording file export Audit Access/ System / Event Log management	Water Removal	Support(Spin dry, Lens heater)
Ethernet Metal shielded RJ-45(10/100BASE-T) Video Compression H.265/H.264: Main/Baseline/High, MJPEG Smart Codec Manual(5ea area), WiseStream II , WiseStream III (Based on AI engine) Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP AP) Hanwha Vision Open Platform Security OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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 export Access / System / Event Log management	Auto Tracking	Object auto tracking(Person/Vehicle)
Video Compression H.265/H.264: Main/Baseline/High, MJPEG Smart Codec Manual(5ea area), WiseStream II , WiseStream III (Based on AI engine) Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv4, TCP/IP, UDP/IP, RTP(UDP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP AP) Hanwha Vision Open Platform Security OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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 export Audit Access / System / Event Log management	Network	
Smart Codec Manual(5ea area), WiseStream II , WiseStream III (Based on AI engine) Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, ETP/SETP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP12O5, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Security Security OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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 export Audit Access / System / Event Log management	Ethernet	Metal shielded RJ-45(10/100BASE-T)
Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPy4, IPy6, TCP/IP, UDP/IP, RTP(UDP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SMMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Security Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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 export Audit Access/ System / Event Log management	Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface SUNAPI(HTTP API) Hanwha Vision Open Platform Security OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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 export Access / System / Event Log management	Smart Codec	Manual (5ea area), WiseStream II, WiseStream III (Based on AI engine)
Multiple streaming(Up to 10 profiles) Protocol	Bitrate Control	·
FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Security OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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 export Audit Access / System / Event Log management	Streaming	
SUNAPI(HTTP API) Hanwha Vision Open Platform Security OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authentication, Prevent brute-force attacks 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 export Audit Access / System / Event Log management	Protocol	FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP,
OS / Firmware Protect User authentication Digest Authentication, Prevent brute-force attacks 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 export Audit Access / System / Event Log management	Application Programming Interface	SUNAPI(HTTP API)
User authentication Digest Authentication, Prevent brute-force attacks 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 export Audit Access / System / Event Log management	Security	
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 export Audit Access / System / Event Log management	OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
Secure Communication HTTPS, WSS(WebSocket Secure), SRTP Access Control IP-based access control Data Protect Encryption Credentials, Encrypt compress for live recording file export Audit Access / System / Event Log management	User authentication	Digest Authentication, Prevent brute-force attacks
Access Control IP-based access control Data Protect Encryption Credentials, Encrypt compress for live recording file export Audit Access / System / Event Log management	Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Data Protect Encryption Credentials, Encrypt compress for live recording file export Audit Access / System / Event Log management	Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP
Audit Access / System / Event Log management	Access Control	IP-based access control
	Data Protect	Encryption Credentials, Encrypt compress for live recording file export
Device ID Device certificate(Hanwha Vision Root CA)	Audit	Access / System / Event Log management
	Device ID	Device certificate(Hanwha Vision Root CA)

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Secure Storage	TPM(Trusted platform module), HTPM(Hanwha trusted platform module), SDcard partition encrypt
General	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 2slot 1TB (512MBx2)
Memory	4GB RAM, 512MB Flash
Environmental & Electrical	
Operating Temperature / Humidity	Normal: -50°C~+55°(-58°F ~ +131°F)/ +74°C(165°F)(Max) based on NEMA TS-2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing) Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Certification	IP66/IP67, IK10, NEMA4X Safety(UL, KC-SDOC), EMC(FCC, CE, VCCI, RCM, KC) NEMA-TS 2(2.2.7, 2.2.8, 2.2.9)
Input Voltage	HPoE(IEEE802.3bt type4, Class8, Injector included)
Power Consumption	HPoE: Max 62W, typical 23W
Mechanical	
Color / Material	Body : White / Aluminum Head : Black / Polycarbontate Hard-coated dome
RAL Code	White: RAL9003 / Black: RAL9005
Product Dimensions / Weight	ø188x264.9mm(ø7.40x10.47") / 4400g (9.70lb)
Hanging Mount (Dome)	SBP-156HMW
Ceiling Mount (Assy)	SBP-156CMW, SBP-300CMTS, SBP-300CMW1/900CMW, SBP-150CMI/300CMI
Wall Mount	SBP-156WMW, SBP-300WMW, SBP-300WMW1, SBP-400WMW, SBP-250WMW
Pole Mount	SBP-300PMW2
In-ceiling Mount	SHP-1730FPW
Parapet Mount	SBP-156LMW, SBP-156LMW1, SBP-300LMW
Corner Mount	SBP-156KMW, SBP-300KMW1
Cabinet	SBP-300NBW
Other Compatible Models	SPB-PTZ95W
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, EN 61000-3-2, EN 61000-3-3 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/EN 62471
Environment	IEC/EN 63000 IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10 NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9) NEMA 250 type 4X
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)

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Hanwha Vision is formerly known as Hanwha Techwin.





Identify (250PPM/ 76PPF)

Wide: 13.1m(43.12ft) / Tele: 339.7m(1114.62ft)

X series XNP-C9310R



XNP-C9310R

4K 31x AI IR PTZ Camera







CAD Unit:mm [inch]

