



Key Features



XNP-C6403RW

2MP 40x AI PTZ Camera with built-in wiper



• Max. 2MP resolution

- 4.25~170mm(40x) zoom (digital 32x, total 1280x zoom)
- Day & Night (ICR), extreme WDR, DIS (Built-in gyro sensor)
- Intelligent Analytics, Object auto tracking (Person/Vehicle), Target lock tracking
- H.264, H.265, MJPEG codec, WiseStream II
- IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)
- PTZ PLUS Design applied (Compact, Lighter, Simple cabling)
- Built-in wiper



2MP 40x AI PTZ Camera with built-in wiper







Specifications

Video	
Imaging Device	1/2.8" CMOS
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 60fps/50fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Min. Illumination	Color: 0.05Lux(F1.6, 1/30sec) BW: OLux(IR LED On)
Lens	
Focal Length (Zoom Ratio)	4.25~170mm(40x) zoom (digital 32x, total 1280x zoom)
Optical Zoom	40x
Max. Aperture Ratio	F1.6(Wide)~F4.95(Tele)
Angular Field of View	H: 65.66°(Wide)~1.88°(Tele) / V: 39.4°(Wide)~1.09°(Tele)
Min. Object Distance	3m(9.84ft)
Focus Control	Oneshot AF, Focus save
Lens Type	DC auto iris
Pan / Tilt / Rotate	
Pan Range	360° Endless
Pan Speed	Max. 500°/sec, Manual: 0.024°/sec~250°/sec
Tilt Range	110°(90°~-20°)
Tilt Speed	Max. 350°/sec, Manual: 0.024°/sec~250°/sec
Sequence	Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Preset Accuracy	Up to \pm 0.1°, Pan/Tilt correction
Operational	
Camera Title	Displayed up to 85 characters
Direction Indicator	Support
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	Extreme WDR(150dB)
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
Privacy Masking	32ea, 4point Quadrangle zones - Color: Gray/Green/Red/Blue/Black/White - Mosaic
Gain Control	Off / Max gain / Manual



Electronic Shutter Speed Minimum / Maximum / Antil files / 2-/11/2000eck Video Rotation FipAMinor Analytics Cashined biject type : Person/Face/Vehicle/License pitec Analytics electronic controlliBosed on Al engine	White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium
Analytics Chasified object type: Person/Face/Neticle/License plate Analytics Chasified object type: Person/Face/Neticle/License plate Analytics over Education of the event based on A lengine - Object detection, Virtual line(Crossing/Direction), Virtual areal(Loitering/Intrusion/Enter/Exit), Motion detection Analytics over Education of the event based on A lengine - Advicts over Education (Virtual area) (Loitering/Intrusion/Enter/Exit), Motion detection, Virtual area) (Loitering/Intrusion/Enter/Exit), Motion detection, Son Chasified (Virtual Para) Alarm Triggers Analytics, Network disconnect. Alarm input(Via optional I/O box SPM-4210), Time schedule, MQTT Alarm Events When alarm frigger occurred File upload(imagit := rmail FTP) SFTP Notiot Calon := -mail Recording: SD/SDM/SDXC or NAS recording at event triggers Handoxyme: PT2 prests cand message by HTTP/HTTPS/TCP Adid clip playback Notiot Calon := -mail Recording: SD/SDM/SDXC or NAS recording at event triggers Handoxyme: PT2 prests cand message by HTTP/HTTPS/TCP	Electronic Shutter Speed	
Attributes: Vehicle(Type:Car/bus/futuk/motorycle/bicycle) Support Detections, Micro Allergine - Adjetics events based on Al engine - Adjetics events based on Al engine - Adjetics events - Recording: SUSPHC/SUSC or NS Secording at event triggers - Adjetics (Diaphabek - Recording: SUSPHC/SUSC or NS Secording at event triggers - Adjetics (Diaphabek - Recording: SUSPHC/SUSC or NS Secording at event triggers - Adjetics (Diaphabek - Recording: SUSPHC/SUSC or NS Secording at event triggers - Adjetics (Diaphabek - Recording: SUSPHC/SUSC or NS Secording at event triggers - Adjetics (Diaphabek <td>Video Rotation</td> <td>Flip&Mirror</td>	Video Rotation	Flip&Mirror
Alarm Events subscription Alarm Events File upload(integic): e-mail/PFJSTP -rie upload(integic): FTJ/STP Notification : e-mail -response in the updoad(vide cit): FTJ/STP -Notification : e-mail -Notification : e-mail -response in the updoad(vide cit): FTJ/STP -Notification : e-mail -response in the updoad(vide cit): FTJ/STP -response	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 uplaad(inde cip): FTP/STP-File uplaad(inde cip): FTP/STP-Notification : email-Recording: SD/SDHC/SDXC or NAS recording at event triggers-Handover, PT2 preset, send message by HTP/HTTPS/TCP-Audo cip laptyback-Notification-Notification-Notification-Notification-Notification-Notification-Notification-NotificationNater RemovalSupport (with Wiper, Lens heater)Auto TrackingAuto Tracking	Alarm Triggers	
R Viewable Length Wise R 200m(656.17ft) Water Removal Support(with Wiper, Lens heater) Auto Tracking Support Object auto tracking(Person/Vehicle) Target lock tracking 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 II, WiseStreamIII(Based on Al Engine) Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast (128 user) Multiple streaming(Up to 10 profiles) Protocol FP4, IP4, TP/STP, SMTP, ICMP, IGM, SMNP4/1/22/GXIMB-2), ARP, DNS, DDNS, QoS, UPAP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface ONVIF Profile S/G/T/M Hanwha Vision Open Platform CV User authentication IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2) Security Secure Communication HTPS, WSS(WebSocket Secure), SRTP Access Control IP-based access control Paed access control Data Protect Encrypted Firmware, Secure boot, Signed Firmware Secure Storage Secure ID Device certificate(Hanwha Vision Root CA) Secure Storage	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 Audio clip playback MQTT: publication
Water Remova Support with Wiper, Lens heater) Auto Tracking Support Object auto tracking(Person/Vehicle) Target lock tracking Auto Tracking Support Object auto tracking(Person/Vehicle) Target lock tracking Network Ethernet Hetnet 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 Al Engine) Bitrate Control H.265/H.264: CBR or VBR MJPEG: VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast (128 user) Multiple streaming(Up to 10 profiles) Prot.200, SUPP, P.Bonjour, LLDP, CDP/P. CP/JP. UDP/P. RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, TFP/STPT, SMTP, ICMP, IGMP, SMMP1/v2C/V3(MIB-2), ARP, DNS, DDNS, QoS, UP.PR, Bonjour, LLDP, CDP, STPT(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface NOVIF Profile S/G/T/M SUNAPU/V2C/V3(MIB-2), ARP, DNS, DDNS, QoS, UP.PR, Bonjour, LLDP, CDP, STPT(TCP, UDP Unicast), NTCIP1205, MQTT Sura ruthentication Digest Authentication, Prevent brute-force attacks Network authentication EEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2) Secure Communication HTPS, WSS(WebSocket Secure), SRTP Access Control Pr-based acceess control	Light Type	IR LED(850nm)
Auto Tracking Support Object auto tracking(Person/Vehicle) Target lock tracking Network Ethernet 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 Al Engine) Bitrate Control H.265/H.264: Main/Baseline/High, MJPEG Streaming Unicast(20 users) / Multicast (128 user) Protocol IPv4, IPv6, TCP/IP, UDP/IP, RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFF, SMTP (CMP, UDP Un FOIDES), 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 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 HTPS, 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 Device ID Devic	IR Viewable Length	Wise IR 200m(656.17ft)
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 II, WiseStreamIII(Based on AI Engine) Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast (128 user) Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv5, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, SSL/TLS, DHCP, TPY/SFTP SMTP, ICMP, IGMP, SUMP4/VAC/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT Application Programming Interface OWIP 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 Device ID Device certificate(Hanwha Vision Root CA) <td>Water Removal</td> <td>Support(with Wiper, Lens heater)</td>	Water Removal	Support(with Wiper, Lens heater)
EthernetMetal shielded RJ-45(10/100BASE-T)Video CompressionH.265/H.264: Main/Baseline/High, MJPEGSmart CodecManual(Sea area), WiseStream II, WiseStreamIII(Based on Al Engine)Bitrate ControlH.264/H.265: CBR or VBR MJPEG: VBRStreamingUnicast(20 user) / Multicast (128 user) Multiple streaming(Up to 10 profiles)ProtocolIPv4, IPv6, CCP/IP, UDP/IP, RTP(UDP), RTP(TCP), 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, SRTPPTOFILe S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open PlatformApplication Programming InterfaceONVEP Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open PlatformSecurityOS / Firmware ProtectSecurityEncrypted Firmware, Secure boot, Signed FirmwareUser authenticationDigest Authentication, Prevent brute-force attacksNetwork authenticationIEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)Secure CommunicationHTTPS, WSS(WebSocket Secure), SRTPAccess ControlIP-based access controlData ProtectEncryption Credentials, Encrypt compress for live recording file exportAuditAccess / System / Event Log managementDevice IDDevice certificate(Hanwha Vision Rot CA)Secure StorageTPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Auto Tracking	Object auto tracking(Person/Vehicle)
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MJPEG: VBRStreamingUnicast(20 users) / Multicast (128 user) Multiple streaming(Up to 10 profiles)ProtocolIPv4, IPv6, CCP/IP, UDP/IP, RTP(UDP), RTP(CCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTTApplication Programming InterfaceONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open PlatformSecuritySecurityOS / Firmware ProtectEncrypted Firmware, Secure boot, Signed FirmwareNetwork authenticationDigest Authentication, Prevent brute-force attacksNetwork authenticationIEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)Secure CommunicationHTTPS, WSS(WebSocket Secure), SRTPAccess ControlIP-based access controlData ProtectEncryption Credentials, Encrypt compress for live recording file exportAuditAccess / System / Event Log managementDevice IDDevice certificate(Hanwha Vision Root CA)Secure StorageTPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Smart Codec	Manual(5ea area), WiseStream II , WiseStreamIII(Based on Al Engine)
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		TPM(Trusted platform module), HTPM(Hanwha trusted platform module),

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 (512GBx2)
Memory	4GB RAM, 512MB Flash
Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+55°C(-40°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 with AIR vent
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / 0~90% RH
Certification	IP66, IK10, NEMA4X, NEMA-TS 2(2.2.7, 2.2.8, 2.2.9)
Input Voltage	PoE++(IEEE802.3bt, Class6, Type3, Injector included)
Power Consumption	Typical 26W, Max 46W
Mechanical	
Color / Material	White, Black / Aluminum+Polycarbontate
RAL Code	White: RAL9003 / Black: RAL9005
Product Dimensions / Weight	ø184.9x318.8mm(7.28x12.55") / 5600g (12.34lb)
Hanging Mount (Dome)	SBP-156HMW
Ceiling Mount (Assy)	SBP-156CMW, SBP-300CMTS, SBP-300CMW1/900CMW, SBP-150CMI/300CMI
Wall Mount	SBP-156WMW, SBP-390WMW2
Pole Mount	SBP-300PMW2
Parapet Mount	SBP-156LMW, SBP-156LMW1, SBP-300LMW
Corner Mount	SBP-156KMW, SBP-300KMW1
Cabinet	SBP-300NBW
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 TS 2-2013 (2.2.7, 2.2.8, 2.2.9) NEMA 250 type 4X
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 59.5m(195.3ft) / Tele: 2340.4m(7678.4ft)
Observe (63PPM/ 19PPF)	Wide: 23.8m(78.1ft) / Tele: 936.2m(3071.4ft)
Recognize (125PPM/ 38PPF)	Wide: 11.9m(39.1ft) / Tele: 468.1m(1535.7ft)
Identify (250PPM/ 76PPF)	Wide: 6.0m(19.5ft) / Tele: 234.0m(767.8ft)
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2MP 40x AI PTZ Camera with built-in wiper





CAD

Unit:mm [inch]

