





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











#### **Key Features**

- 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



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### **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 ±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

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com. Hanwha Vision is formerly known as Hanwha Techwin.



Electronic Shutter Speed  Minimum / Masimum / Asta Histor (211 2.000sec) Prefer shutter controllBased on Al engine  FigeAfricor  Analytics  Classified object type : Person/Face/Vehicle/License plate Attributes : Vehicle/Type-carp/bus/truck/motorcyclubicycle) Support Detections/from Al engine  - Object detection. Virtual Al engine - Object detection. Sound line/Crossing/Direction/, Virtual area/Lobering/Intrusion/Enter/Exit), Motion detection - Analytics events - Tampering, For effection. Sound classification/Via 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 File optionalings: I enemality Try SFTP - Hostification : email - Pecording: SiySBML/SDX or NAS recording at event triggers - Handover: PT2 presst, exed message by HTTP/HTTP/STD - HOTT: Debitication - Alarm output/Via optional I/O box SPM-4210.  Light Type  R LEDRISONI  R Vice Removal  Support with Wiper. Lens heater)  Auto Tracking  Support  Metal shielded RJ-45(10/1008ASE-T)  Video Compression  H 256/H 264 Main/Basselinc/High MJPEG  Smart Code  Manual/Sea area.) WiseStream II. WiseStream III Wis	White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium
Video Rotation         FlipAMirror           Analytics         classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type:car/bus/truck/motorcycle/bicycle)           Analytics         classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type:car/bus/truck/motorcycle/bicycle)           Apport Detection Should classification (Virtual area/Lopear/Disappear)         - Object detection. Should classification (Virtual area/Lopear/Disappear)           Analytics: Network disconnect. Alarm Imput(Via optional I/O box SPM-4210). Time schedule. MQTT subscription           Alarm Events         When alarm trigger occurred - File upload (video clip): FIP/SFTP - Notification: e-mail - Recording: SD/SPII/CSDX.co vn NS recording at event triggers - Audio clip plasfack: a MOTT: publication - Ration of Publication - Audion clip plasfack: a MOTT: publication - Audio clip plasfack: a MOTT: publication - Audion - Audion clip plasfack: a MOTT: publication - Audion - Audion - Audion - Audion -	Electronic Shutter Speed	
Analytics Classified object type: Person/Esap/Nebtad/License plate Attributes: Schleic/Piperson/Para/Nebtad/License plate Attributes: Schleic/Piperson/Pubr/ruck/motorcycle/biocycle) Support DetectionShot Analytics events based on Alengine - Object detection, Virtual Intel/Crossing/Direction), Virtual areal/Appear/Disappear) - Analytics, Network disconnect, Alarm input(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 upload(Image): e-mail/FTP/SFTP - Notification: e-mail - Sept. FTP/SFTP - Noti	ACL Dist	
Alarm Events When alarm trigger occurred  - File uploadlinage] : e-mail/TP/SFTP  - Notification i: e-mail  - Recording is SD/SPLA(SDKC or NAS recording at event triggers  - Handower: PT2 preset, send message by HTTP/HTTPS/TCP  - Audio (cip playback  - MQTT: publication  - Alarm output(Via optional I/O box SPM-4210)  Light Type IR LED(850nm)  IR Viewable Length Wise IR 200m/656.17tl  Water Removal Support  - Support (with Wiper, Lens heater)  Auto Tracking Support  - Object auto tracking(Person/Vehicle)  - Target lock tracking  - Support  - Object auto tracking Person/Vehicle)  - Target lock tracking  - Target lock tracking		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, Fog detection, Shock detection, Virtual area(Appear/Disappear)
File upload(finage): e-mail/FP/SFTP File upload(finage): E-mail/FP/SFTP File upload(finage): E-P/SFTP Audio Cip playback Morri publication Alarm output/t/da optional I/O box SPM-4210)  Light Type IR LED(850nm) IR Viewable Length Wise IR 200m(656.17ft)  Water Removal Auto Tracking Support Object auto tracking(Person/Vehicle) Target lock tracking Ferson/Vehicle) Target lo	Alarm Triggers	
RY Viewable Length   Wise IR 200m(656.17ft)	Alarm Events	<ul> <li>- File upload(image): e-mail/FTP/SFTP</li> <li>- File upload(video clip): FTP/SFTP</li> <li>- Notification: e-mail</li> <li>- Recording: SD/SDHC/SDXC or NAS recording at event triggers</li> <li>- Handover: PTZ preset, send message by HTTP/HTTPS/TCP</li> <li>- Audio clip playback</li> <li>- MQTT: publication</li> </ul>
Water Removal Support (with Wiper, 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 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 PP-4, IP-0, TCP/IP, UDP/IP, RTP(IUDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMP-1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT  Application Programming Interface ONNE Profile S/G/T/M SUNAPI(HTTP AP) Hanwha Vision Open Platform  Security  Security  Security  Secure Communication 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)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Light Type	IR LED(850nm)
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 II, WiseStream III (Based on Al Engine)  Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR NJPEG: VBR MJPEG: VBR MJPEG	IR Viewable Length	Wise IR 200m(656.17ft)
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 IP4.4 IPv6. TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP SMTP, ICMP, IGMP, SMMP41/22/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT  Application Programming Interface ONLY 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 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)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Water Removal	Support(with Wiper, Lens heater)
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) Multicast (128 user) Multiple streaming(Up to 10 profiles)  Protocol   IPv4, IPv6, TCP/IP, UDP/IP, RTP(IDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1,Vv2c/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  Device ID Device certificate(Hanwha Vision Root CA)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Auto Tracking	Object auto tracking(Person/Vehicle)
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, IPv6, TCP/IP, UDP/IP, 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), NTCIP1205, MQTT         Application Programming Interface       ON/IF Profile S/G/T/M SUANPI(HTTP API) Hamwha 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         Device ID       Device certificate(Hanwha Vision Root CA)         Secure Storage       TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	 Network	
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, IPv6, TCP/IP, UDP/IP, 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), NTCIP1205, MQTT         Application Programming Interface       ON/IF Profile S/G/T/M SUANPI(HTTP API) Hamwha 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         Device ID       Device certificate(Hanwha Vision Root CA)         Secure Storage       TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Ethernet	Metal shielded RJ-45(10/100BASE-T)
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  Protocol  Protocol  Protocol  Protocol  Diva, IPVA, CPVP, IUDP/IDP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SMMP21/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  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  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  TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Streaming Unicast(20 users) / Multicast (128 user) Multiple streaming(Up to 10 profiles) Protocol   Pv4, Ipv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), 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 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)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	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, 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/GT/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  Access / System / Event Log management  Device ID  Device certificate(Hanwha Vision Root CA)  Secure Storage  TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Streaming	
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)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	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  Device ID  Device certificate(Hanwha Vision Root CA)  Secure Storage  TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Application Programming Interface	SUNAPI(HTTP API)
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  Device ID  Device certificate(Hanwha Vision Root CA)  Secure Storage  TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Security	
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)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	•	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  Device ID Device certificate(Hanwha Vision Root CA)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),		
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  TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	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  Device ID Device certificate(Hanwha Vision Root CA)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP
Audit Access / System / Event Log management  Device ID Device certificate(Hanwha Vision Root CA)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Access Control	IP-based access control
Device ID Device certificate(Hanwha Vision Root CA)  Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Data Protect	Encryption Credentials, Encrypt compress for live recording file export
Secure Storage TPM(Trusted platform module), HTPM(Hanwha trusted platform module),	Audit	Access / System / Event Log management
	Device ID	Device certificate(Hanwha Vision Root CA)

#### General

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English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russlan, Portupuse, Ceche, Polish, Truskis, Dutch, Hungarian, Greek	Wahnaga Languaga	Fuglish Kayaan Chinaga Evansh Italian Spanish Common January Burgin
Memory	webpage Language	
Environmental & Electrical	Edge Storage	Micro SD/SDHC/SDXC 2slot 1TB (512GBx2)
Operating Temperature   Humidity	Memory	4GB RAM, 512MB Flash
Operating Temperature   Humidity	Environmental & Electrical	
#74"C(F165F) (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 AlR vent  Storage Temperature / Humidity -50°C - 460°C(-58°F - 140°F) / 0-90% RH  Certification   P66. IK10. NEMAK NEMA-TS 2(2.2.7.2.2.8.2.2.9) Input Voltage   P0E++(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   a184.9x318.mm(7.28x12.55°) / 5600g (12.34lb)  Hanging Mount (Dome)   SBP-156HMW   SBP-300CMTS, SBP-300CMW1/900CMW, SBP-150CMI/300CMI   Wall Mount   SBP-156HMW, SBP-300MW2  Pole Mount   SBP-156CMW, SBP-300CMW1, SBP-300LMW1/900CMW, SBP-150CMI/300CMI   SBP-156CMW, SBP-300MW2  Parapet Mount   SBP-156KMW, SBP-300KMW1   SBP-300LMW   Corner Mount   SBP-156KMW, SBP-300KMW1   SBP-300MBW    Certifications & Standards  EMC   FCC 47 CFR 15 Subpart B Class A   CCS-3(A)/MMB-3(A)   CEPUICA   EN S003C Class A   EN S0130-4   CCEPUICA   EN S003C SBA A   EN S0130-4   CEPUICA   EN S003C SBA A   EN S0130-4   CEPUICA   EN S003C SBA A   CES-3(A)/MBB-3(A)   EN S003C SBA A   EN S0130-4   EN S003		-40°C~+55°C(-40°E~+131°E) /
Certification	operating reinperature / riuminity	+74°C(+165°F) (MAX) based on NEMA-TS 2(2.2.7)  * Start up should be done at above -30°C
Input Voltage	Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / 0~90% RH
Power Consumption	Certification	IP66, IK10, NEMA4X, NEMA-TS 2(2.2.7, 2.2.8, 2.2.9)
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-156CMW, SBP-300CMW1/900CMW, SBP-150CMI/300CMI           Wall Mount         SBP-156LMW, SBP-300MW2           Parapet Mount         SBP-156LMW, SBP-300LMW           Corner Mount         SBP-156KMW, SBP-300KMW1           Cabinet         SBP-300NBW           Certifications & Standards           EMC         FCC 47 CFR 15 Subpart B Class A CES-3(A)/NAB-3(A) CEFUKA, VANDB-3(A) CEFURA, VANDB-3	Input Voltage	PoE++(IEEE802.3bt, Class6, Type3, Injector included)
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           Celling Mount (Assy)         SBP-156CMW, SBP-300CMTS, SBP-300CMW1/900CMW, SBP-150CMI/300CMI           Wall Mount         SBP-156CMW, SBP-390WMW2           Pole Mount         SBP-300PMW2           Parapet Mount         SBP-156LMW, SBP-300LMW           Corner Mount         SBP-156LMW, SBP-300KMW1           Cabinet         SBP-300NBW           Certifications & Standards         SBP-300NBW           EMC         FCC 47 CFR 15 Subpart B Class A (ESS-3(A)/NMB-3(A) CE/UKCA CE/U	Power Consumption	Typical 26W, Max 46W
RAL Code White: RAL 9003 / Black: RAL 9005 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-156CMW, SBP-390WMW2 Pole Mount SBP-300PMW2 Parapet Mount SBP-156LMW, SBP-156LMW1, SBP-300LMW Corner Mount SBP-156LMW, SBP-156LMW1, SBP-300LMW Corner Mount SBP-156LMW, SBP-300KMW1 Cabinet SBP-300NBW  Certifications & Standards  EMC FCC 47 CFR 15 Subpart B Class A (CES-3(A)/MMB-3(A) CEC/UKCA - EN 55032 Class A EN 50130-4 VCCI CISPR 32 Class A K SC 9835 Safety UL 62368-1, CAN/CSA C22.2 NO. 62368-1 (EC 632471  Environment EN IEC 63000 (EC 63262 IK10 NEMA 250 type 4X  DORI (EN62676-4 standard)  Detect (25PPM/ 8PPF) Wide: 23.8m(78.1ft) / Tele: 2340.4m(7678.4ft) Observe (63PPM/ 19PPF) Wide: 23.8m(78.1ft) / Tele: 236.2m(3071.4ft) Recognize (125PPM/ 38PPF) Wide: 11.9m(39.1ft) / Tele: 468.1m(1535.7ft)	Mechanical	
Product Dimensions / Weight         a184.9x318.8mm(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-156WWW, SBP-390WMW2           Pole Mount         SBP-300PMW2           Parapet Mount         SBP-156LMW, SBP-300LMW           Corner Mount         SBP-156LMW, SBP-300KMW1           Cabinet         SBP-300NBW           Certifications & Standards         FCC 47 CFR 15 Subpart B Class A CEY, MCA - EN 55032 Class A, EN 50130-4 VCCI CISPR 32 Class A, EN 50130-4 VCCI CISPR 32 Class A, EN 50130-4 VCCI CISPR 32 Class A, KS C 9835           Safety         UL 62368-1, CAN/CSA C22.2 NO. 62368-1 RC 62471           Environment         EN IEC 63000 RC 62471           Environment         EN IEC 63000 RC 6252 IP66, IEC 62262 IK10 NEMA 75 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/19PFF)         Wide: 23.8m(78.1ft) / Tele: 2340.4m(7678.4ft)           Recognize (125PPM/38PPF)         Wide: 11.9m(39.1ft) / Tele: 468.1m(1535.7ft)	Color / Material	White, Black / Aluminum+Polycarbontate
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/I/KCA -EN 55032 Class A, EN 50130-4 VCCI (ISPR 32 Class A) RCM AS/NZS CISPR 32 Class A RCM A	RAL Code	White: RAL9003 / Black: RAL9005
Ceiling Mount (Assy)         SBP-156CMW, SBP-300CMTS, SBP-300CMW1/900CMW, SBP-150CMI/300CMI           Wall Mount         SBP-156WMW, SBP-390WW2           Pole Mount         SBP-300PMW2           Parapet Mount         SBP-156LMW, SBP-300LMW           Corner Mount         SBP-156LMW, SBP-300KMW1           Cabinet         SBP-300NBW           Certifications & Standards         FCC 47 CFR 15 Subpart B Class A Less A Less-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A EN 50130-4 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 C	Product Dimensions / Weight	ø184.9x318.8mm(7.28x12.55") / 5600g (12.34lb)
Wall Mount         SBP-156WMW, SBP-390WMW2           Pole Mount         SBP-300PMW2           Parapet Mount         SBP-156LMW, SBP-156LMW1, SBP-300LMW           Corner Mount         SBP-300NBW           Cabinet         SBP-300NBW           Certifications & Standards           EMC         FCC 47 CFR 15 Subpart B Class A LCES-3(A)/NMB-3(A) CCE/UKCA - EN 55032 Class A, EN 50130-4 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class	Hanging Mount (Dome)	SBP-156HMW
Pole Mount   SBP-300PMW2     Parapet Mount   SBP-156LMW, SBP-156LMW1, SBP-300LMW     Corner Mount   SBP-156KMW, SBP-300KMW1     Cabinet   SBP-300NBW     Certifications & Standards     EMC	Ceiling Mount (Assy)	SBP-156CMW, SBP-300CMTS, SBP-300CMW1/900CMW, SBP-150CMI/300CMI
Parapet Mount         SBP-156LMW, SBP-300LMW           Corner Mount         SBP-156KMW, SBP-300KMW1           Cabinet         SBP-300NBW           Certifications & Standards         FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA CE/U	Wall Mount	SBP-156WMW, SBP-390WMW2
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, EN 50130-4 VCCI CISPR 32 Class A, KS C 9835 Class A, KS	Pole Mount	SBP-300PMW2
Cabinet         SBP-300NBW           Certifications & Standards         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 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 622471           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)	Parapet Mount	SBP-156LMW, SBP-156LMW1, SBP-300LMW
Certifications & Standards  EMC	Corner Mount	SBP-156KMW, SBP-300KMW1
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 9835   RCM AS/NZS CISPR 32 Class A   KS C 9835   RCM AS/NZS CISPR 32 Class A   KS C 9835   RCM AS/NZS CISPR 32 Class A   RCM AS/NZS CISPR 32 C	Cabinet	SBP-300NBW
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 9835   RCM AS/NZS CISPR 32 Class A   KS C 9835   RCM AS/NZS CISPR 32 Class A   KS C 9835   RCM AS/NZS CISPR 32 Class A   RCM AS/NZS CISPR 32 C	Certifications & Standards	
Environment   EN IEC 62471		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
IEC 60529 IP66, IEC 62262 IK10   NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9)   NEMA 250 type 4X	Safety	
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)	Environment	IEC 60529 IP66, IEC 62262 IK10 NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9)
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)	DORI (EN62676-4 standard)	
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)	·	Wide: 59.5m(195.3ft) / Tele: 2340.4m(7678.4ft)
Recognize (125PPM/ 38PPF) Wide: 11.9m(39.1ft) / Tele: 468.1m(1535.7ft)		
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2MP 40x AI PTZ Camera with built-in wiper







CAD Unit:mm [inch]

