





2MP x 4CH IR PTRZ Multi-directional Camera











Key Features

- Motorized PTRZ support
- Maximum 60fps@2MP(H.265, H.264)
- 3.2~10mm(3.1x) motorized varifocal lens
- IR viewable length : 30m(98.43ft)
- H.265, H.264, MJPEG codec, Multi streaming
- Video analytics, WiseStream II
- IP66, IK10, NEMA4X



2MP x 4CH IR PTRZ Multi-directional Camera



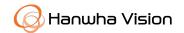




Specifications

Video	
Imaging Device	1/2.8" CMOS x 4CH
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(F1.6,30 IRE) BW: OLux(IR LED on)
Lens	
Focal Length (Zoom Ratio)	3.2~10mm(3.1x) motorized varifocal
Max. Aperture Ratio	F1.6(Wide)~F2.9(Tele)
Angular Field of View	H: 109.0°(Wide)~33.2°(Tele), V: 57.4°(Wide)~18.7°(Tele), D: 132.0°(Wide)~38.0°(Tele)
Min. Object Distance	0.5m(1.64ft)
Focus Control	Simple focus
Lens Type	DC auto iris
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	Remote adjustment (Max. 200cycles) 0~360- / 30~80- / 0~90-
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNRV
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, 4point polygonal zones - Color: Grey, Green, Red, Blue, Black, White - Mosaic
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror
Analytics	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection,
Analytics	Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection

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.



Alam Triggers Alam Events Refie upload via Fir and e-mail Sof-Soft-CSDX at event triggers Alam output Audio In Selectable finic in filine in) Sophy-Over Sox at event triggers Alam output Hendover Brive upload via Fir and e-mail Sophy-Over 2-200C/cl/mål, Input impedance: 2K Ohm Audio Out Une out. Max. output level: 1Vms Brive Widewable Length Wideo Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression Audio Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression H.265/H.265: Markey K.271: BKHz G.726: Indobps, 2Mthps, 2Mthps, 2Mthps, 2Mthps, 4Mthps Markey Code H.266/H.265/BROW MRR H.266/H.266/BROW MRR H.266/H.265/BROW MRR H.266/H.266/BROW MRR H.266/H.266/BROW MRR H.266/H.266/BROW MRR H.266/BROW MRR H		
Notification via e-mail SUSPENCES ACT event triggers Alam output Interdover	Alarm Triggers	Analytics, Network disconnect, Alarm input
Multio Out Line out. Max.output level: 1Vrms IR Viewable Length 30m(98.43ft) Network February Ethernet Metal shielded RJ-45(10/100/1000BASE-T) Video Compression H. 265/H.264-Msin/Baseline/High, MJPEG Audio Compression H. 265/H.264-Msin/Baseline/High, MJPEG Audio Compression G.726.1648pb. 2448ps. 3248ps. 40Rbps. AGRES Smart Codec Manual(Sea area), WiesStream II Bitrate Control Mayer Compression MJFEC VBR Streaming Unicast(20 users)/ Multicast Multiple streaming(Up to 10 profiles) Protocol IPP4, IPV4, TCP/IP, UDP/IP. RTPICUPI, RTCP,RTCP,RTCP,RTCP,RTS, NTP, HTTP, HTTPS, SSL/TLS, DMCP,FTP, SMTP, LGMP, JGMRS, MINMY-LZCA/SMIRB-20, ARP, DNS, DDNS, GOS, PIM-SM, UPPR, Bonjour, LLDP Security JEMP (SMP), IGMP, SMRMP/LYZCA/SMIRB-20, ARP, DNS, DDNS, GOS, PIM-SM, UPPR, Bonjour, LLDP Security JOHNE FORDIG S/T SMP, LGMP, JGMRS, MINMY-LZCA/SMIRB-20, ARP, DNS, DDNS, GOS, PIM-SM, UPPR, Bonjour, LLDP Power Social Smart Company Authentication (Part Lase) JUST AGENT AGEN	Alarm Events	Notification via e-mail SD/SDHC/SDXC at event triggers Alarm output
R Viewable Length Som (98.43ft) Network Ethernet Metal shielded RJ-45(10/100/1000BASE-T) Video Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression G.711 L-law (G.726 G.726 G.726/BOPCM) 8HHz, G.711 BKHz G.726 G.726 (AMDps 2 34Kbps, 32Kbps, 40Kbps G.726 (AMDps 2 4Kbps, 32Kbps, 40Kbps, 4	Audio In	
Network	Audio Out	Line out, Max.output level: 1Vrms
Ethernet Metal shielded RJ-45(10/100/1000BASE-T) Video Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression G.711: u-law (6.726 G.726(ADPCM) BHLE, G.711 BKHz G.726: 16KDps. 24KDps. 32KDps. 40KDps AAC-LC-48KDps at 16Hdz Smart Codec Manual(Sea area), WiseStream II Bitrate Control H.264/H.265: CBR or VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPM4, IPM6, TCP/IP, UDP/IP, RTP(UDP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, LCMP, ICMP, SMMP-VI/V2/V3/MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP Security HTTPS(SSL) Login Authentication IP Address Filtering Quarter Siltering Quarter Siltering	IR Viewable Length	30m(98.43ft)
Video Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression G.711 u-law (G.726 G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps Smart Codec Manual(Sea area), WiseStream II Bitrate Control H.264/H.265: CBR or VBR Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol PM-1966: CFW, PM-190PJR, RTP(UDP), RTP(UDP), RTP(LTP, RTP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, ICMP, SNMP-1/192C/3/MIMB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP Security HTTPS(SSL) Login Authentication User Authentication (Paper Legin Authentication (Paper Legi	Network	
Audio Compression G.711 u-law / G.726 G.726 (APPCM) ANTZ G.711 8KHz G.726 (APPCM) ANTZ G.721 8KHz Bitrate Control H.24/H.265 CBR or VBR M.PEG VBR Streaming Unication unication White streaming(Up to 10 profiles) Multiple streaming(Up to 10 profiles) MITPS(SSL) Login Authentication Ip Address Filtering User access log 802.1X	Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)
G.726/ADPCM) BKHz, G.711 BKHz G.726: 1AKBp.2 AKBp.5, 32Kbps, 40Kbps AAC-LC: 48Kbp.5 at 16KHz Bitrate Control H.264/H.265: GR or VBR MJPEG: VBR MJPEG: WBR MJPEG: WBR MJPEG: WBR MJPEG: WBR MJEGE WBR	Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(20 users) / Multicast Multiples treaming(Up to 10 profiles) Protocol IPP44 IPv4. TCP/IP. UDP/IP, RTP(IUDP), RTCP, RTCP, NTCP, NTCP, NTP, HTTP, HTTP, SSL/TLS, DHCP, FTP, STPP, CLMP, IGMS, SMNPA/V2c/v3 (Mi8-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP Security HTTPS(SSL) Login Authentication Ipgest Login Authentication Ipgest Login Authentication Ipgest Login Authentication Ipgest Login Authentication IPP Address Filtering	Audio Compression	G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps
Streaming Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPA-4, IPA-5, TCP/IP, UDP/IP, RTF(UDP), RTF(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, LCMP, IGMP, SMMP-VI/V2C/V3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPAP, Bonjour, LLDP Security HTTPS(SSL) Login Authentication plest Login Authentic	Smart Codec	Manual(5ea area), WiseStream II
Multiple streaming[Up to 10 profiles) Protocol PP-4, IP-4, TCP/IP, UDP/IP, RTP(IUDP), RTP(TCP), NTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP_(BMP, SMNP4/LV2/A)(BIIB=2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP Security HTTPS(SSL) Login Authentication Digest Login Authenticat	Bitrate Control	,
Security Security HTTPS(SSL) Login Authentication plast Login Authentication (EAP-TLS, EAP-LEAP) Application Programming Interface ONNIP Profile S/T SUNAP/(HTTP AP) Wisenet open platform General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 4slot 256GB(each CH) Memory 5GB RAM, 1280MB Flash Environmental & Electrical Operating Temperature / Humidity -40°C-+55°C(-40°F-+131°F) / Less than 90% RH Storage Temperature / Humidity -50°C-+60°C(-58°F-+140°F) / Less than 90% RH Certification IP66, IK10, NEMA4X Input Voltage HP0E(IEEE802.3bt. Class6, Type3), 12VDC Power Consumption PoE: Max. 42 W, Typical 30 W 12VDC: Max. 38 W, Typica	Streaming	
Digest Login Authentication PAddress Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Application Programming Interface ONIVE Profile S/T SUNAPI(HTTP API) Wisenet open platform General English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 4slot 256GB(each CH) Memory 5GB RAM, 1280MB Flash Environmental & Electrical Operating Temperature / Humidity -40°C~+55°C(-40°F~+131°F) / Less than 90% RH Storage Temperature / Humidity -50°C~+60°C(-58°F~+140°F) / Less than 90% RH Certification IP66. IK10, NEMA4X Input Voltage HPoE(IEEE802.3bt, Class6, Type3), 12VDC Power Consumption PoE: Max. 42 W, Typical 30 W 12VDC: Max. 38 W, Typical 28.2 W Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight Ø315x145.9 mm(12.40°x5.74°) / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4°	Protocol	
SUNAPI(HTTP API) Wisenet open platform General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 4slot 256GB(each CH) Memory 5GB RAM, 1280MB Flash Environmental & Electrical Operating Temperature / Humidity -40°C~+55°C(-40°F~+131°F) / Less than 90% RH Storage Temperature / Humidity -50°C~+60°C(-58°F~+140°F) / Less than 90% RH Certification IP66, IK10, NEMA4X Input Voltage HP0E(IEEE802.3bt, Class6, Type3), 12VDC Power Consumption PoE: Max. 42 W, Typical 30 W 12VDC: Max. 38 W, Typical 28.2 W Mechanical Color / Material RAL Code RAL 9003 Product Dimensions / Weight Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4"	Security	Digest Login Authentication IP Address Filtering User access log
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Memory 5GB RAM, 1280MB Flash Environmental & Electrical Operating Temperature / Humidity -40°C~+55°C(-40°F~+131°F) / Less than 90% RH Storage Temperature / Humidity -50°C~+60°C(-58°F~+140°F) / Less than 90% RH Certification IP66. IK10. NEMA4X Input Voltage HP0E(IEEE802.3bt. Class6, Type3), 12VDC Power Consumption POE: Max. 42 W, Typical 30 W 12VDC: Max. 38 W, Typical 28.2 W Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4"	Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
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Operating Temperature / Humidity -40°C~+55°C(-40°F~+131°F) / Less than 90% RH Storage Temperature / Humidity -50°C~+60°C(-58°F~+140°F) / Less than 90% RH Certification IP66, IK10, NEMA4X Input Voltage HP0E(IEEE802.3bt, Class6, Type3), 12VDC Power Consumption PoE: Max. 42 W, Typical 30 W 12VDC: Max. 38 W, Typical 28.2 W Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4"	Memory	5GB RAM, 1280MB Flash
Storage Temperature / Humidity -50°C~+60°C(-58°F~+140°F) / Less than 90% RH Certification IP66, IK10, NEMA4X Input Voltage HPoE(IEEE802.3bt, Class6, Type3), 12VDC Power Consumption PoE: Max. 42 W, Typical 30 W 12VDC: Max. 38 W, Typical 28.2 W Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4"	Environmental & Electrical	
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Input Voltage HPoE(IEEE802.3bt, Class6, Type3), 12VDC Power Consumption PoE: Max. 42 W, Typical 30 W 12VDC: Max. 38 W, Typical 28.2 W Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4"	Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / Less than 90% RH
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Mechanical Color / Material RAL Code Product Dimensions / Weight Compatible Conduit hole / Gangbox Max. 38 W, Typical 28.2 W White / Aluminum RAL 9003 RAL9003 Compatible Conduit hole / Gangbox 3/4"	Input Voltage	HPoE(IEEE802.3bt, Class6, Type3), 12VDC
Color / Material White / Aluminum RAL Code RAL 9003 Product Dimensions / Weight Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4"	Power Consumption	
RAL Code RAL9003 Product Dimensions / Weight Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4"	Mechanical	
Product Dimensions / Weight Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb) Compatible Conduit hole / Gangbox 3/4"	Color / Material	White / Aluminum
Compatible Conduit hole / Gangbox 3/4"	RAL Code	RAL9003
	Product Dimensions / Weight	Ø315x145.9 mm(12.40"x5.74") / 5.2 kg(11.5lb)
Hanging Mount (Dome) SBP-317HMW	Compatible Conduit hole / Gangbox	3/4"
	Hanging Mount (Dome)	SBP-317HMW

DORI (EN62676-4 standard)

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Detect (25PPM/ 8PPF)	Wide: 27.4m(89.9ft) / Tele: 128.8m(422.6ft)
Observe (63PPM/ 19PPF)	Wide: 62.5m(35.9)ft) / Tele: 51.5m(169.0ft)
Recognize (125PPM/ 38PPF)	Wide: 5.5m(18.0ft) / Tele: 25.8m(84.5ft)
Identify (250PPM/ 76PPF)	Wide: 2.7m(9.0)ft) / Tele: 12.9m(42.3ft)



2MP x 4CH IR PTRZ Multi-directional Camera



CAD Unit:mm [inch]

