





XNF-9013RV

12MP AI IR Fisheye Camera











Key Features

- AI technology
- Classified object type: Person/Face/Vehicle/License plate
- Support Detection Shot
- Object detection-Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit)
- Stereographic type fisheye lens
- · Improved image quality
- extreme WDR (2MP@60fps) by scene Analysis and Local contrast enhancement
- WiseNR II, Auto prefer shutter control based on AI
- Resolution/Framerate
- Original view-Max.30fps/25fps@3008x3008 (60Hz/50Hz)
- Double panorama-Max.30fps/25fps@3584x1792 (60Hz/50Hz)
- Single panorama-Max.30fps/25fps@3584x896 (60Hz/50Hz)
- WiseStreamIII based on AI
- Next level cybersecurity
- Device Certificate (Root CA, pre-installed)
- TPM 2.0 (FIPS 140-2 certified), Secure OS/boot/storage, Verified FW forgery
- Adjustable IR distance with WisePower: PoE+mode-13m, PoE mode-8m
- Mirco SD/SDHC/SDXC 2 slot: Max. 1TB (512GBx2ea)
- Reinforced durability
- IP66, NEMA4X, IK10, Metal shielded RJ-45
- Hard-coated dome bubble
- Additional accessories
- Black Skin Cover (SBC-160BF), Tilted wall mount (SBP-160TMW1)

Compatible Devices















SBC-160BF

SBP-160HMW1

SBV-180BW

SBV-180WW

SBP-150CMI

SBP-300CMI

SBP-300CMW1







SBP-900CMW SBP-300CMTW SBP-300CMTS SBP-300WMW SBP-300WMW1 SBP-390WMW2 SBP-160WMW1





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Specifications

Video		
Imaging Device	Size	1/2.3"
	Туре	CMOS
Resolution		3584x2688, 3584x1792, 3584x896, 3008x3008, 1920x960, 1920x480, 1792x1344, 1792x896, 1504x1504, 1080x1080, 1024x768, 960x960, 800x600, 768x768, 720x720, 704x576, 640x640, 640x480, 640x320, 640x160, 480x480
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@9MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.39
	BW(1/30sec, 30IRE)	0.039
Video Out		CVBS: 1.0 Vp-p / 75Ω composite for installation, USB: Micro USB Type B
Lens		
Focal Length (mm)		1.08
Max Aperture Ratio (F number)	Wide	2.2
Angular Field of View	Horizontal	187°
	Vertical	187°
	Diagonal	187°
Min. Object Distance		0.5m(1.64ft)
Focus Control		Simple focus
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Rotate	Lens rotation
Operational		
Day & Night		Auto(ICR)
Backlight Compensation		BLC, HLC, WDR, SSDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
		-

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Quantity	32ea
Shape	
Shape	4point Quadrangle zones
Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic
	Off, Max gain, Manual
	ATW, NarrowATW, AWC, Manual, Indoor, Outdoor
Mode	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on Al engine)
Speed Range	1/5~1/12,000sec
	Flip, Mirror
In/Out	2 configurable I/O ports
	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription
Trigger Occurred	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,Alarm output, Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback, MQTT: publication
	Selectable(mic in/line in), Built-in mic
	Line out
	IR LED
IR	WiseIR 8m(26.25ft)(PoE), 13m(42.65ft)(PoE+)
	850nm
	Person, Face, Vehicle, License plate
Vehicle	Type(car, bus, truck, motorcycle, bicycle)
	DetectionShot
Based on AI Engine	Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection
Normal	Defocus detection, Tampering, Fog detection, Audio detection, Sound classification, Virtual area(Appear/Disappear)
Based on Al Engine	People counting, Queue management, Heatmap, Vehicle counting
	Metal shielded RJ-45(10/100BASE-T)
	H.265/H.264: Main/Baseline/High, MJPEG
	G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz, G.726: 16kbps,24kbps,32kbps,40kbps, AAC-LC: 48kbps at 16kHz
	Manual, WiseStreamIII
	H.265/H.264: CBR or VBR, MJPEG: VBR
	Speed Range In/Out Trigger Occurred IR Vehicle Based on AI Engine Normal

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Network		
Streaming	Unicast	Up to 20 users
	Multicast	Support
	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, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QOS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT
Application Programming Interface	ONVIF	S, G, T, M
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Support
Security		
OS / Firmware Protect		Encrypted firmware, Secure boot, Signed firmware
User authentication		Digest authentication, Prevent brute-force attack
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), SDcard partition encrypt(AES-256)
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 & E	lectrical	
Operating Condition	Temperature	-40°C~+60°C(-40°F~+140°F)
	Humidity	0~95% RH(non-condensing)
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3), PoE+(IEEE802.3at, Class4), 12VDC
Power Consumption	PoE	PoE mode: Max 12.95W,typical 9.4W, PoE+ mode: Max 23.0W,typical 9.4W,
	12VDC	PoE mode: Max 12.9W,typical 9.0W,
		PoE+ mode: Max 22.0W,typical 9.0W
Mechanical		PoE+ mode: Max 22.0W,typical 9.0W

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Mechanical				
Material		Aluminum		
RAL Code		RAL9003		
Product Dimensions		ø160x72mm(ø6.30x2.83")		
Product Weight		1170g(2.58 lb)		
Compatible Gang Box		Single, Double, 4" Octagon, Square		
Certifications & Standards				
EMC		FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 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 62471		
Environment		IEC/EN 63000, IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X		
DORI (EN62676-4 standard)				
Detect (25PPM/8PPF)	Wide	34.9m(114.49ft)		
Observe (63PPM/ 19PPF)	Wide	13.9m(45.60ft)		
Recognize (125PPM/ 38PPF)	Wide	7.0m(22.96ft)		
Identify (250PPM/ 76PPF)	Wide	3.5m(11.48ft)		

X series XNF-9013RV



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CAD Unit: mm [inch]

