



Network

Fisheye

XNF-9010RS

Stainless IR Fisheye Camera



Key Features

- 1/2.3" 12MP CMOS
- 1.08mm fixed focal lens
- Stereo graphic type lens - enhanced resolution for the peripheral regions
- H.265, H.264, MJPEG codec supported
- Fisheye, Single panorama, Double panorama, Quad view
- On board dewarping, Digital PTZ
- extreme WDR (120dB), WiseStream II support
- Wise IR - IR viewable length 8m (26.25ft)
- Virtual channel support
- Plugin support, selectable I/O port
- Video Analytics, Heatmap, People counting
- Queue management
- Stainless Steel
- Motion detection, Handover
- IP66, IP67, IP6K9K, NEMA4X, IK10, IK10+ (it can resist impacts of 40 joules), NSF/ANSI Standard 169 – Special Purpose Food Equipment and Devices

Compatible Devices



SBP-300HMS6



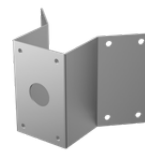
SBP-300WMS1



SBP-300WMS



SBP-300PMS



SBP-300KMS

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Specifications

Video		
Imaging Device	Size	1/2.3"
	Type	CMOS
Resolution	1792x896, 3584x2688, 3008x3008, 960x960, 1080x1080, 640x160, 1920x960, 1792x1344, 720x720, 3584x896, 768x768, 480x480, 1920x480, 640x480, 1504x1504, 640x320, 704x576, 640x640, 1024x768, 3584x1792, 800x600, 3840x2160	
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	USB: Micro USB Type B, CVBS: 1.0 Vp-p / 75Ω composite for installation	
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	
Operational		
Day & Night	Auto(ICR)	
Backlight Compensation	HLC, SSDR, BLC, WDR	
Wide Dynamic Range (dB)	120	
Digital Noise Reduction	SSNR V	
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	4point Quadrangle zones
	Color / Option	Gray, Mosaic, Green, Red, Blue, White, Black

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.

Operational

Gain Control		Off, Max gain, Manual
White Balance		NarrowATW, Manual, Outdoor, ATW, Indoor, AWC
LDC		Support(Fill/stretch mode)
Electronic Shutter	Mode	Prefer shutter control, Minimum, Maximum, Anti flicker
	Speed Range	2~1/12,000sec
Digital PTZ		Support
Video Rotation		Flip, Mirror
Alarm Interface	In/Out	2 configurable I/O ports
Alarm Triggers		MQTT subscription, Time schedule, Alarm input, Analytics, Network disconnect, App event
Alarm Events When Alarm Trigger Occurred		Handover: PTZ preset, send message by HTTP/HTTPS/TCP, Notification: e-mail, MQTT: publication, Audio clip playback, File upload(video clip): FTP/SFTP, Alarm output, File upload(image): e-mail/FTP/SFTP, Recording: SD/SDHC/SDXC or NAS recording at event triggers
Audio In		Built-in mic, Selectable(mic in/line in)
Audio Out		Line out
Light Type		IR LED
Light Viewable Length	IR	WiseIR 8m(26.25ft)
IR Wavelength		850nm

Analytics

Analytics Events	Normal	Sound classification, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Defocus detection, Virtual line(Crossing, Direction), Tampering, Motion detection, Audio detection
Business Intelligence	Normal	People counting, Heatmap, Queue management

Network

Ethernet		Metal shielded RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression		G.711 u-law /G.726 selectable, G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps, G.726(ADPCM) 8KHz, G.711 8KHz, AAC-LC: 48Kbps at 16KHz
Smart Codec		Manual, WiseStream II
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles
Protocol		HTTPS, RTP(UDP), IPv4, FTP, NTP, TCP/IP, ARP, DHCP, RTCP, IPv6, UDP/IP, Bonjour, DNS, SNMPv1/v2c/v3(MIB-2), RTP(TCP), SSL/TLS, QoS, SMTP, DDNS, IGMP, HTTP, SFTP, UPnP, CDP, LLDP, MQTT, RTSP, ICMP, SRTP(TCP, UDP Unicast)
Application Programming Interface	ONVIF	G, T, S
	Others	Hanwha Vision Open Platform, SUNAPI(HTTP API)

Network

Direct Cloud Connection	Support
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Security

OS / Firmware Protect	Encrypted firmware, Signed firmware, Secure boot
User authentication	Prevent brute-force attack, Digest authentication
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	WSS(WebSocket Secure), HTTPS, SRTP
Access Control	IP-based access control
Data Protect	Encrypt compress for live recording file export, Encryption credentials
Audit	Access / System / Event Log management
Device ID	Device certificate(Hanwha Vision Root CA)
Secure Storage	SDcard partition encrypt(AES-256), HTPM(Hanwha Trusted Platform Module)

General

Memory	RAM	4GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 512GB x 2slot(Total 1TB)

Environmental & Electrical

Operating Condition	Temperature	-40°C~+50°C(-40°F~+122°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), 12VDC
Power Consumption	PoE	Max 12.95W, typical 11W
	12VDC	Max 11W, typical 9.1W

Mechanical

Color	Silver
Material	Nylon dome, Stainless(STS316L)
Product Dimensions	ø167.9x72.1mm(6.61x2.84")
Product Weight	2,980g(6.57lb)
Compatible Gang Box	4" Octagon, Double, Square, Single

Certifications & Standards

EMC	CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, ICES-3(A)/NMB-3(A), RCM AS-NZS CISPR 32 Class A, FCC 47 CFR 15 Subpart B Class A, VCCI 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 60529 IP67, IEC/EN 63000, IEC 60529 IP66, NEMA 250 type 4X, ISO 20653 IP6K9K, NSF/ANSI Standard 169, IEC 62262 IK10+

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)

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CAD

Unit: mm [inch]

