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 Accessories (Optional)

SBP-300HMS6

SBP-300WMS1

SBP-300WMS

SBP-300PMS

SBP-300KMS

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.

© Hanwha Vision CO., LTD. All rights reserved.

XNF-9010RS

Stainless IR Fisheye Camera

Specifications

Video	
Imaging Device	1/2.3" CMOS
Resolution	Original view(1:1): 3008x3008~480x480 Double panorama(2:1): 3584x1792~640x320 Single panorama(4:1): 3584x896~640x160 Quad view: 3584x2688~640x480 Q1/Q2/Q3/Q4(4:3): 1792x1344~640x480
Max. Framerate	H.265/H.264: Original view-Max. 30fps/25fps@3008x3008(60Hz/50Hz), Double panorama-Max. 30fps/25fps@3584x1792(60Hz/50Hz) Single panorama-Max. 30fps/25fps@3584x896(60Hz/50Hz) MJPEG: Max. 30fps(@9MP Max. 5fps)
Min. Illumination	Color: 0.39Lux(F2.2, 1/30sec, 30IRE) BW: 0Lux(IR LED on)
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for Installation USB: Micro USB Type B, 1280x720 for installation

Lens	
Focal Length (Zoom Ratio)	1.08mm fixed focal
Max. Aperture Ratio	F2.2
Angular Field of View	H: 187° / V: 187° / D: 187°
Min. Object Distance	0.5m(1.64ft)
Focus Control	Simple focus

Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	extremeWDR(120dB)
Digital Noise Reduction	SSNR V
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
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
LDC	Support(Fill/stretch mode)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker(2~1/12,000sec) prefer shutter control
Digital PTZ	Support(Preset, Group)
Video Rotation	Flip, Mirror
Analytics	Analytics events - Defocus detection, Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification

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.

© Hanwha Vision CO., LTD. All rights reserved.

Business Intelligence	People counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports
Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription
Alarm Events	When alarm 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
Audio In	Selectable(mic in/line in/built-in mic)
Audio Out	Line out
IR Viewable Length	WiseIR 8m(26.25ft)

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(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz
Smart Codec	Manual(5ea area), WiseStream II
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast 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 Profile S/G/T SUNAPI(HTTP API) Wisenet open platform

Security	
OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authenticaton, 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	HTPM(Hanwha trusted platform module), SDcard partition encrypt

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 Max. 1TB(512GBx2)
Memory	4GB RAM, 512MB Flash

Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+50°C(-40°F~+122°F) / 0~95% RH(non-condensing)

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.

© Hanwha Vision CO., LTD. All rights reserved.

Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Certification	IP66/IP67, IP6K9K, NEMA4X, IK10+ NSF/ANSI Standard 169 – Special Purpose Food Equipment and Devices.
Input Voltage	PoE(IEEE802.3af, class3), 12VDC
Power Consumption	PoE: Max 12.95W, typical 11W 12VDC: Max 11W, typical 9.1W

Mechanical

Color / Material	Silver / Stainless(SUS316L) Bubble: Nylon dome
Product Dimensions / Weight	ø167.9x72.1mm(ø6.61x2.84"), 2980g(6.57 lb)
Compatible Conduit hole / Gangbox	single, double, 4" octagon, 4" square
Hanging Mount (Dome)	SBP-300HMS6
Wall Mount	SBP-300WMS/WMS1
Pole Mount	SBP-300PMS
Corner Mount	SBP-300KMS

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, 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	EN IEC 63000 IEC 60529 IP66/IP67, ISO 20653 IP6K9K, IEC 62262 IK10+ NEMA 250 type 4X NSF/ANSI Standard 169

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	34.9m(114.49ft)
Observe (63PPM/ 19PPF)	13.9m(45.60ft)
Recognize (125PPM/ 38PPF)	7.0m(22.96ft)
Identify (250PPM/ 76PPF)	3.5m(11.48ft)

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.

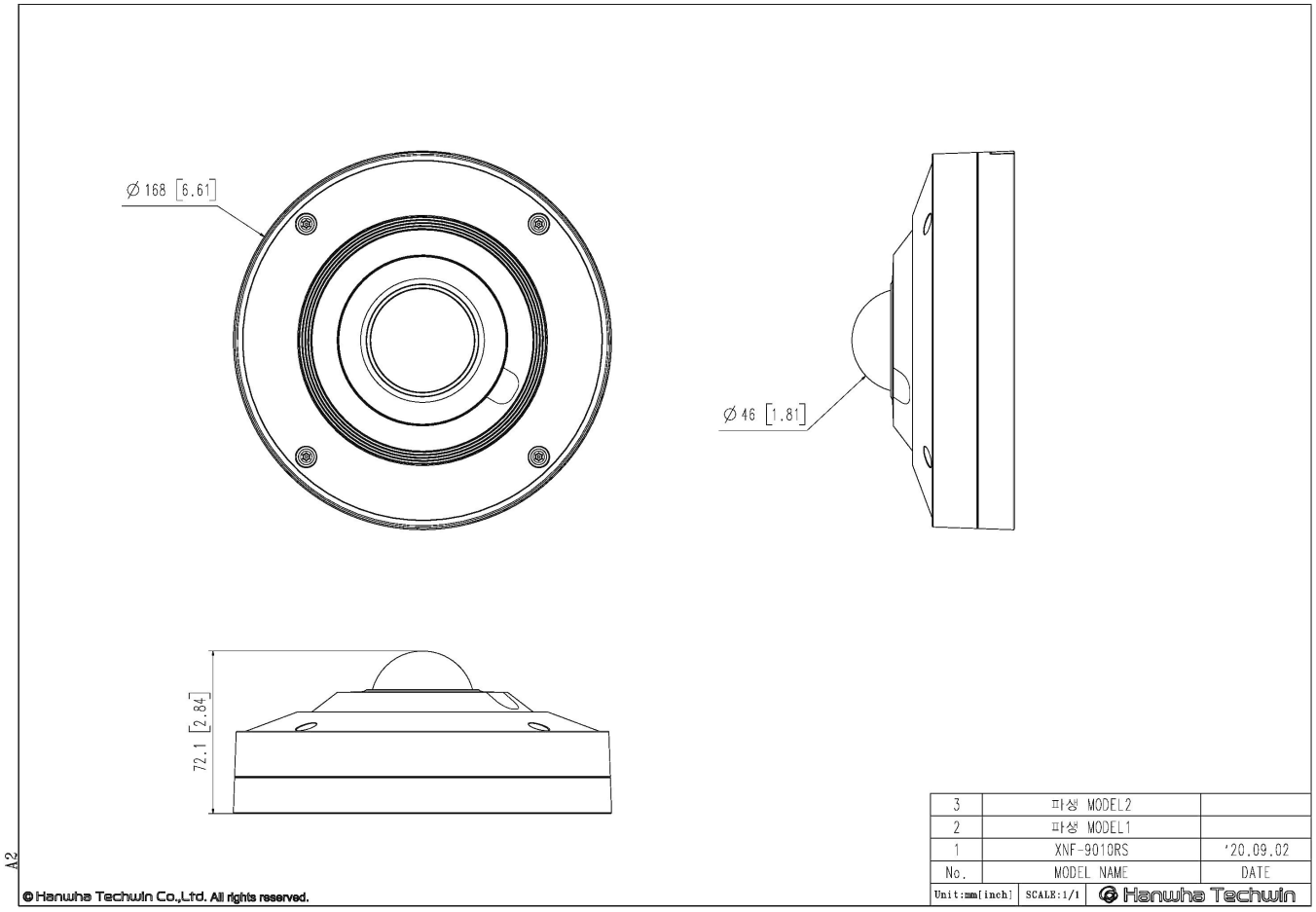
© Hanwha Vision CO., LTD. All rights reserved.

XNF-9010RS

Stainless IR Fisheye Camera

CAD

Unit:mm [inch]



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.

© Hanwha Vision CO., LTD. All rights reserved.