

# XNF-8010R/8010RV/8010RVM

6MP Sensor Fisheye Camera



XNF-8010R



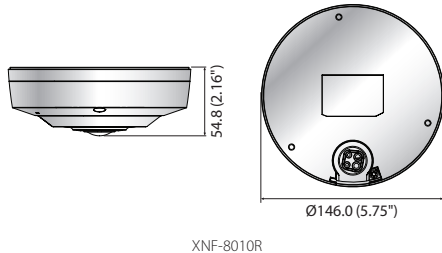
XNF-8010RV/8010RVM

## Key Features

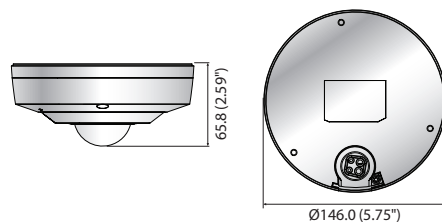
- Max. 2048 x 2048 resolution
- H.265, H.264, MJPEG codec supported
- Variable view mode (Fisheye, Single panorama, Double panorama, Quad view)
- On board dewarping, Digital PTZ (8x), Bi-directional audio
- True WDR (120dB), WiseStreamII support
- Tampering, Loitering, Directional detection, Audio detection, Sound classification, Heatmap, People counting, Queue management
- Motion detection, Handover
- M12 connector (XNF-8010RVM)
- IP66 / IK10 (XNF-8010RV/8010RVM)
- SD / SDHC / SDXC memory slot (Max. 512GB), 12V DC / PoE
- IR viewable length 15m (49.21ft)

## Dimensions

Unit : mm (inch)



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## Accessories (Optional)



SHF-1500F SBP-300HM5 SBP-300CM SBP-300WM1 SBP-300WM SBP-300LM  
SBP-300TM1 SBP-300PM SBP-300KM SBP-300B SBP-300NB SBF-100B1

## XNF-8010R/8010RV/8010RVM

<b>VIDEO</b>	
Imaging Device	1/1.8" 6M CMOS
Total Pixels / Effective Pixels	3,096(H) x 2,094(V) / 2,048(H) x 2,048(V)
Scanning System	Progressive
Min. Illumination	Color: 0.1 Lux (F1.6), B/W: 0 Lux (IR LED On)
S/N Ratio	50dB
Video Output	CVBS: 1.0Vpp / 75Ω Composite, 714x 480(N), 702x 576(P) for Installation, DIP Connector Type, USB
<b>LENS</b>	
Focal Length / Max. Aperture Ratio	1.6mm / F1.6
Angular Field of View	H: 192° / V: 192° / D: 192°
Min. Object Distance	0.3m (0.98ft)
Focus Control	Simple focus / Manual, Remote control Via network
Lens Type / Mount Type	Fixed / Board-in Type
<b>OPERATIONAL</b>	
Viewable Length	15m (49.21ft)
Camera Title	Off / On (Displayed up to 85 characters) - W/W : English / Numeric / Special characters - China : English / Numeric / Special / Chinese characters - Common : Multi-line (Max. 5), Color (Gray / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC / HLC / WDR
Wide Dynamic Range	120dB
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNRV (2D + 3D Noise filter) (Off / On)
Digital Image Stabilization	Off / On
Defog	Off / Auto (input from fog detection) / Manual
Motion Detection	Off / On (8ea, 8point polygonal zones), Handover
Privacy Masking	Off / On (32ea, polygonal) - Color: Gray, Green, Red, Blue, Black, White - Mosaic
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor (Included mercury & Sodium)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)
Digital Zoom	8x, Digital PTZ (Preset, Group)
Flip / Mirror	Off / On
Intelligent Video Analytics	Tampering, Loitering, Directional detection, Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Sound classification, People counting, Heatmap, Queue management
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Alarm Input, Motion detection, Video & Audio analytics, Network disconnect
Alarm Events	File upload Via FTP and E-Mail, Notification Via E-Mail, Local storage (SD/SDHC/SDXC) or NAS recording at event triggers, External output
Viewing Composition	Camera Side : Fisheye, Single panorama, Double panorama, Fisheye + 4 PTZ Quad View, Fisheye + 8 PTZ
Pixel Counter	Support
<b>NETWORK</b>	
Ethernet	RJ-45 (10/100 BASE-T)
Video Compression Format	H.265 / H.264 / MJPEG
Resolution	Original view : 2048 x 2048, 1280 x 1280, 1080 x 1080, 960 x 960, 768 x 768, 720 x 720, 640 x 640, 480 x 480 Single panorama : 2048 x 512, 1920 x 480, 1280 x 320, 640 x 160, 704 x 176 Double panorama : 2048 x 1024, 1920 x 960, 1280 x 640, 640 x 320, 704 x 352 Quad View : 2048 x 1536, 1600 x 1200, 1280 x 960, 1024 x 768, 800 x 600, 640 x 480, 704 x 576 [Q1 / 2 / 3 / 4] 1024 x 768, 800 x 600, 640 x 480
Max. Framerate	H.265 / H.264 : 30fps@2,048 x 2,048, MJPEG : Max. 15fps
Smart Codec / WiseStreamII	Manual mode (area-based : 5ea) / support
Video Quality Adjustment	H.265 / H.264 : Target bitrate level control, MJPEG : Quality level control
Bitrate Control Method	H.265 / H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio In	Selectable (Mic in / Line in / Built-in mic) Supply voltage : 2.5V DC (4mA), Input impedance: Approx. 2K Ohm
Audio Out	Line out (3.5mm mono jack), Max output level : 1Vrms
Audio Compression Format	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 (XNF-8010R) (at 8 / 16 / 32 / 48KHz: XNF-8010RV/8010RVM)
Audio Communication	Bi-directional (2way)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTCP, RTP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, SIP
Security	HTTPS (SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x Authentication (EAP-TLS, EAP-LEAP)
Streaming Method	Unicast / Multicast
Max. User Access	20 users at unicast mode
Edge Storage	SD/SDHC/SDXC 2slot (up to 512GB) - Continuous recording (1st slot to 2nd slot) - Motion images recorded in the SD/SDHC/SDXC memory card can be downloaded. - Camera can detect automatically when the memory is connected - Memory status display (Normal / Error / Active / Formatting / Lock) NAS (Network Attached Storage), Local PC for instant recording (Plug-in Viewer only)
Application Programming Interface	ONVIF Profile S/G, SUNAPI, Wisenet open platform
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Turkish, Polish, Czech, Dutch, Hungary, Greek
Web Viewer	Supported OS : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 [Plug-in Free Webviewer] Supported Browser : Google Chrome 60, MS Edge 40, Mozilla Firefox 55 (Window 64bit only), Apple Safari 10 (Max OS X only) [Plug-in Webviewer] Supported Browser : MS Explore 11, Apple Safari 10 (Mac OS X only)
Central Management Software	SmartViewer, SSM
<b>ENVIRONMENTAL</b>	
Operating Temperature / Humidity	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH (XNF-8010R) -40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH (XNF-8010RV/8010RVM)
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Ingress Protection / Vandal Resistance	IP66 / IK10 (XNF-8010RV/8010RVM)
<b>ELECTRICAL</b>	
Input Voltage / Current	12V DC ±10%, PoE (IEEE802.3af, Class3)
Power Consumption	Max. 11W (12V DC), Max. 12W (PoE) (XNF-8010R) Max. 12W (12V DC), Max. 12.95W (PoE) (XNF-8010RV/8010RVM)
<b>MECHANICAL</b>	
Color / Material	Ivory / Aluminum
Dimension (WxHxD)	Ø146 x 54.8mm (Ø5.75" x 2.16") (XNF-8010R) Ø146 x 65.8mm (Ø5.75" x 2.59") (XNF-8010RV/8010RVM)
Weight	730g (1.61 lb) (XNF-8010R) / 785g (1.73 lb) (XNF-8010RV) / 790g (1.74 lb) (XNF-8010RVM)

\* The latest product information / specification can be found at [hanwa-security.com](http://hanwa-security.com)  
\* Design and specifications are subject to change without notice.