

# XND-8020R/8030R/8040R

5MP Network IR Dome Camera

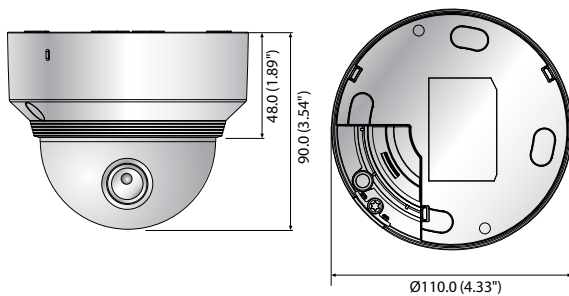


## Key Features

- Max. 5Megapixel (2560 x 1920) resolution
- Built-in 3.7mm fixed lens (XND-8020R)  
4.6mm fixed lens (XND-8030R)  
7.0mm fixed lens (XND-8040R)
- Max. 30fps@all resolutions (H.265 / H.264)
- H.265, H.264, MJPEG codec Supported, Multiple streaming
- Day & Night (ICR), WDR (120dB), Defog
- Loitering, Directional detection, Fog Detection, Audio detection, Digital Auto Tracking, Sound classification, Heatmap, People Counting, Queue Management, Tampering
- Motion detection, Handover
- SD / SDHC / SDXC memory slot (Max. 512GB), PoE / 12V DC
- Hallway View, WiseStreamII Support
- IR Viewable length 30m, IK08
- LDC Support (Lens Distortion Correction)

## Dimensions

Unit : mm (inch)



XND-8020R/8030R/8040R	
<b>VIDEO</b>	
Imaging Device	1/1.8" 6M CMOS
Total Pixels	3,096(H) x 2,094(V)
Effective Pixels	2,616(H) x 1,976(V)
Scanning System	Progressive Scan
Min. Illumination	Colour: 0.16Lux (F1.6, 1/30sec), B/W: 0Lux (IR LED on)
S/N Ratio	50dB
Video Out	CVBS : 1.0Vpp / 75Ω composite, 720 x 480(N), 720 x 576(P), for Installation USB : Micro USB Type B, 1280 x 720 for Installation
<b>LENS</b>	
Focal Length (Zoom Ratio)	3.7mm Fixed (XND-8020R), 4.6mm Fixed (XND-8030R), 7mm Fixed (XND-8040R)
Max. Aperture Ratio	F1.6
Angular Field of View	H : 97.5° / V : 71.9° / D : 126.2° (XND-8020R), H : 77.9° / V : 57.9° / D : 98.7° (XND-8030R), H : 50.7° / V : 37.8° / D : 63.8° (XND-8040R)
Min. Object Distance	0.4m (1.31ft)
Focus Control	Manual
Lens / Mount Type	Fixed / Board-in Type
<b>PAN / TILT / ROTATE</b>	
Pan / Tilt / Rotate Range	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
<b>OPERATIONAL</b>	
IR Viewable Length	30m (98.43ft) 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 (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by Resolution
Camera Title	
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC / HLC (Masking / Dimming), 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 : Grey / Green / Red / Blue / Black / White, Mosaic
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor (Included mercury & Sodium)
Contrast	Level adjustment
LDC (Lens Distortion Correction)	Off / On (5 Levels with min / max)
Electronic Shutter Speed	Minimum / Maximum / Anti Flicker (2 ~ 1/12,000sec)
Digital PTZ	24x, Digital PTZ (Preset, Group)
Flip / Mirror	Off / On, Hallway View : 90°/270° Tampering, Loitering, Directional detection, Defocus Detection, Fog Detection, Virtual line, Enter / Exit, (Dis) Appear, Audio detection, Face detection, Motion detection, Digital Auto Tracking, Sound Classification, Heatmap, People Counting, Queue Management
Video & Audio Analytics	Input 1ea / Output 1ea
Alarm I/O	Alarm Input, Motion detection, Video & Audio Analytics, Network disconnect
Alarm Triggers	File Upload Via FTP, E-mail, Notification via e-mail, Local Storage (SD / SDHC / SDXC) or NAS recording at event triggers, External output, DPTZ preset
Alarm Events	Support
<b>Pixel Counter</b>	
<b>NETWORK</b>	
Ethernet	RJ-45 (10/100 BASE-T)
Video Compression Format	H.265 / H.264 (MPEG-4 part 10/AVC) : Main / Baseline / High, MJPEG
Resolution	2560 x 1920, 2560 x 1440, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
Max. Framerate	H.265 / H.264 : Max. 30fps at all resolutions, MJPEG : Max. 30fps
Smart Codec	Manual Mode (Area-Based : 5ea)
WiseStreamII	Support
Video Quality Adjustment	H.265 / H.264 : Target bitrate level control, MJPEG : Target bitrate level control
Bitrate Control Method	H.265 / H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 Profiles) Selectable (Mic in / Line in), Built-in MIC, Max Output Level : 1Vrms
Audio In	Supply voltage : 2.5V DC (4mA), Input Impedance : Approx. 2K Ohm
Audio Out	Line out, 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 8 / 16 / 32 / 48KHz
Audio Communication	Bi-directional (2-way)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
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) NAS (Network Attached Storage), Local PC for Instant Recording
Application Programming Interface	ONVIF profile S/G, SUNAPI (HTTP API), Wisenet Open Platform
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Supported OS : Windows 7, 8, 10, Mac OS X 10.10, 10.11, 10.12 Non-plugin Web Viewer - Supported Browser : Google Chrome 54, MS Edge 38, Mozilla Firefox 49 (Window 64bit only), Apple Safari 9 * Mac OS X only Plug-in Web Viewer - Supported Browser : MS Explore 11, Apple Safari 9 * Mac OS X only
Web Viewer	
Central Management Software	SmartViewer, SSM
<b>ENVIRONMENTAL</b>	
Operating Temperature / Humidity	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Vandal Resistance	IK08
<b>ELECTRICAL</b>	
Input Voltage / Current	12V DC ±10%, PoE (IEEE802.3af)
Power Consumption	Max. 8W (12VDC), Max. 9W (PoE)
<b>MECHANICAL</b>	
Colour / Material	Ivory / Metal
Dimensions (WxH)	Ø110.0 x 90.0mm (Ø4.33" x 3.54")
Weight	380g (0.84 lb)

\* The latest product information / specification can be found at hanwha-security.com  
\* Design and specifications are subject to change without notice.