

Excellence Through Innovation



wisenet 7 lineup

4K XND-9082RV/9082RF, XNV-9082R, XNO-9082R, XNB-9002 **6MP** XND-8082RV/8082RF, XNV-8082R, XNO-8082R, XNB-8002

wisenet 7 Our chip built for your surveillance needs

Security requirements change and market trends evolve. One constant remains: the need for intelligent networked surveillance solutions – in every market, for any application.

At the heart of Hanwha Techwin's new product development is the Wisenet 7 System on a Chip (SoC). Developed in-house and built in Korea, we're continually enabling new features and analytics.

Wisenet 7 is our most technology-intensive, innovative and feature-rich SoC...proving the biggest ideas often have the smallest beginnings...

Hanwha Techwin's Wisenet 7 SoC: Excellence through innovation in image quality, cybersecurity and analytics.

Enhanced Image Quality

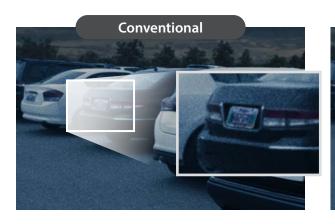
Vivid 4K Resolution

Hanwha Techwin's F1.2 varifocal lens is implemented into the Wisenet 7 4K camera lineup, allowing the most light into the camera's sensor and producing clear and vivid images.



Sharper images with enhanced noise reduction technology

Identify objects faster and easier, even in low-light environments. The Wisenet 7 camera line's enhanced noise reduction technology minimizes motion blur and image artifacts while increasing object sharpness and definition.





Extreme WDR with Scene Analysis technology

Hanwha Techwin's improved multi-frame WDR technology lets you take full advantage of image contrast to see detailed objects clearly even in environments with strong backlight conditions.

Conventional







wisenet 7







Wisenet 7's Scene Analysis technology manages the dynamic range and tone of each frame allowing our extreme WDR technology to produce vivid and natural images unattainable with conventional WDR implementations.



Creates optimized WDR images

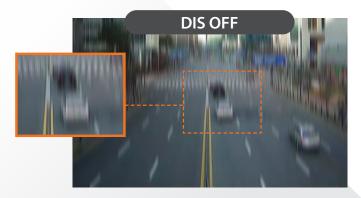
Realistic image reproduction with LDC

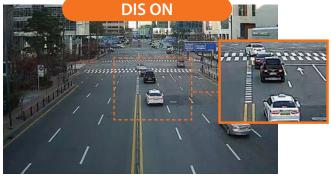
Wisenet 7's lens distortion correction technology produces natural-looking images without the distortion often created by conventional camera designs equipped with wide-angle lenses.



DIS with built-in gyro sensor

Wisenet 7's advanced image stabilization technology can reduce the motion blur caused by wind or vibration. A gyroscopic sensor plus DIS technology is specifically designed and engineered into select Wisenet 7 cameras resulting in sharp, stable images.

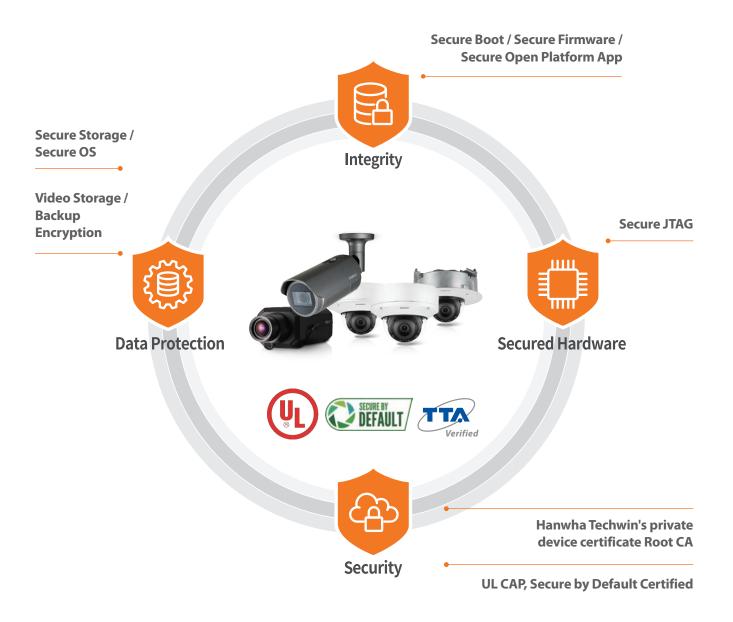




End-to-end **Cybersecurity**

System protection, built-in from the ground up

With its own device certificate issuing system, Root CA, the Wisenet 7 camera lineup offers the highest levels of cybersecurity possible. Secure by Default, Hanwha Techwin's cybersecurity policy, embeds unique certificates into all products during each step of the development and manufacturing process. This results in a cybersecurity policy that satisfies stringent UL CAP standards as well as our own requirements for product reliability and design innovation.



User Convenience



Modular structure for easy installation

Wisenet 7 dome-style cameras use the proven modular design of our X series PLUS camera line to reduce time and cost.

OSD vector graphic

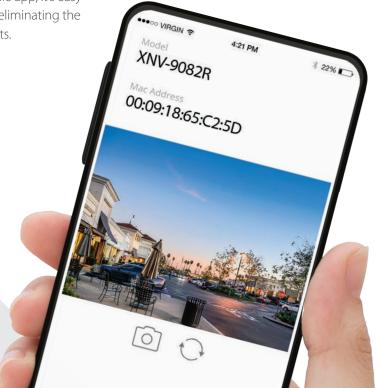
Wisenet 7's use of vector graphics instead of traditional raster graphics lets you customize camera overlays with text and embedded logos for camera identification and branding.



USB and mobile app support

With a USB adapter and the free Wisenet Installation mobile app, it's easy to adjust a camera's angle and focus during installation – eliminating the need for additional devices, saving time and lowering costs.

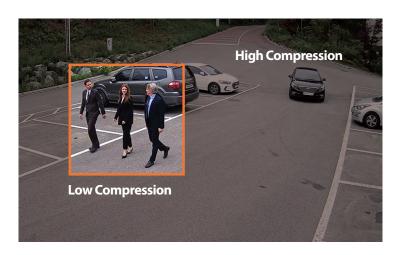




Operational **Efficiency**

Reduce bandwidth using WiseStream II

Using Hanwha Techwin's WiseStream II with H.265 compression technology, Wisenet 7 cameras achieve up to a 99% reduction in bandwidth and storage costs over the use of traditional H.264 compression alone without compromising live or recorded image quality.



License-free intelligent video and audio analytics

The Wisenet 7 camera lineup features a variety of license-free video and audio analytics, providing enhanced monitoring and forensic review. Sound classification recognizes the sounds of gunshots, explosions, screams and broken glass for immediate response. Audio event playback allows a pre-recorded sound to provide audio talkdown to a specified analytic event.









Dual micro SD slots

With dual micro SD slots, you can save up to 1 TB of data automatically to the camera, keeping content safe in the event of network failure or instability.



wisenet 7 4K Lineup





XNO-9082R

XNV-9082R

Imaging Device	1/2.8"CMOS	1/2.8"CMOS	
Min. Illumination	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	
/ideo Output	Micro USB Type B	Micro USB Type B	
ocal Length	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	
Angular Field of View	H: 114° (Wide) ~ 40.2° (Tele) / V: 62.0° (Wide) ~ 22.5° (Tele) / D: 133.0° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) / V: 62.0° (Wide) ~ 22.5° (Tele) / D: 133.0° (Wide) ~ 46.3° (Tele)	
Pan / Tilt / Rotate	-	0°~360° / -45°~85° / 0°~355°	
R Viewable Length	40m (131.23ft)	40m (131.23ft)	
ay & Night	Auto (ICR)/Color/BW/ External/Schedule	Auto (ICR)/Color/BW/ External/Schedule	
Vide Dynamic Range	extreme WDR	extreme WDR	
Digital Noise Reduction	SSNRV	SSNRV	
oigital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	
Analytics	Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	
susiness Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	
Alarm I/O	2 configurable I/O ports	2 configurable I/O ports	
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	
/ideo Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	
esolution / Max. Frame Rate	4K/30fps	4K/30fps	
ViseStream	WiseStream II	WiseStream II	
treaming	Up to 10 profiles	Up to 10 profiles	
dge Storage	Micro SD/SDHC/SDXC 2slots(512GB)	Micro SD/SDHC/SDXC 2slots(512GB)	
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	
Operating Temperature	-50°C~+60°C (-58°F ~ +140°F) / Less than 95% RH (non condensing) * Start up should be done at above -30°C	-50°C~+60°C (-58°F ~ +140°F) / Less than 95% RH (non condensing) * Start up should be done at above -30°C	
Certification	IP66/IP67, IK10, NEMA4X	IP66/IP67/IP6K9K, IK10+, NEMA4X	
Power Consumption	PoE : typ 10.5W, max 12.95W 12VDC : typ 9.4W, max 12.5W 24VAC : typ 11.2W, max14.5W	PoE : typ 10.7W, max 12.95W 12VDC : typ 9.0W, max 11.5W 24VAC : typ 11.0W, max13.5W	
Dimensions WxHxD / Weight)	Ø91 x 368.6mm (Ø3.85" x 14.51") 2.2kg (4.85lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.18lb)	







XND-9082RF

XND-9082RV

XNB-9002

1/2.8"CMOS	1/2.8"CMOS	1/2.8"CMOS	
Color: 0.05Lux (F1.2, 1/30sec) B/W: OLux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: OLux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0.005Lux	
Micro USB Type B	Micro USB Type B	Micro USB Type B	
$2.8 \sim 8.4$ mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	-	
H: 114° (Wide) ~ 40.2° (Tele) / V: 62.0° (Wide) ~ 22.5° (Tele) / D: 133.0° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) / V: 62.0° (Wide) ~ 22.5° (Tele) / D: 133.0° (Wide) ~ 46.3° (Tele)	-	
0°~360° / -45°~85° / 0°~355°	0°~360°/-45°~85°/0°~355°	None	
40m (131.23ft)	40m (131.23ft)	None	
Auto (ICR)/Color/BW/ External/Schedule	Auto (ICR)/Color/BW/ External/Schedule	Auto (ICR)/Color/BW/ External/Schedule	
extreme WDR	extreme WDR	extreme WDR	
SSNRV	SSNRV	SSNRV	
Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	
Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	
People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	
2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	
Selectable (mic in/line in) / Line out	Selectable (mic in/line in/Built-in mic) / Line out	Selectable (mic in/line in/Built-in mic) Supply voltage: 2.5VDC (4mA), Input impedance: 2K Ohm	
H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	
4K/30fps	4K/30fps	4K/30fps	
WiseStream II	WiseStream II	WiseStream II	
Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	
Micro SD/SDHC/SDXC 2slots(512GB)	Micro SD/SDHC/SDXC 2slots(512GB)	Micro SD/SDHC/SDXC 2slots(512GB)	
ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	
-25°C ∼ $+60$ °C (-13 °F ∼ $+140$ °F) / Less than 95% RH (non condensing)	-25°C \sim +60°C (-13°F \sim +140°F) / Less than 95% RH (non condensing)	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH (non condensing)	
IP52, Plenum rate, IK10	IP52, IK10	-	
PoE : typ 10.7W, max 12.95W 12VDC : typ 9.0W, max 11.5W	PoE : typ 10.7W, max 12.95W 12VDC : typ 9.0W, max 11.5W	PoE: typ 8.2W, Max 12.95W 12VDC: typ 7.5W, Max 11.5W 24VAC: typ 8.9W, Max 13.5W	
Ø205 x163mm (Ø8.07" x 6.42") 1.95kg (4.29lb)	Ø160 x125mm (Ø6.30" x 4.92") 1.6kg (3.52lb)	W81 x D165 x H67mm (W3.19" x D6.48" x H2.64") 0.88kg (1.94lb)	

wisenet 7 6MP Lineup





XNO-8082R

XNV-8082R

Imaging Device	1/2.8" CMOS	1/2.8"CMOS	
Min. Illumination	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0Lux (IR LED On)	
Video Output	Micro USB Type B	Micro USB Type B	
ocal Length	2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	
Angular Field of View	H: 114° (Wide) ~ 40.2° (Tele) / V: 62.0° (Wide) ~ 22.5° (Tele) / D: 133.0° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) / V: 62.0° (Wide) ~ 22.5° (Tele) / D: 133.0° (Wide) ~ 46.3° (Tele)	
Pan / Tilt / Rotate	-	0°~360° / -45°~85° / 0°~355°	
R Viewable Length	40m (131.23ft)	40m (131.23ft)	
Day & Night	Auto (ICR)/Color/BW/ External/Schedule	Auto (ICR)/Color/BW/ External/Schedule	
Vide Dynamic Range	extreme WDR	extreme WDR	
Digital Noise Reduction	SSNRV	SSNRV	
Digital Image Stabilization	Support (built-in gyro sensor)	Support (built-in gyro sensor)	
Analytics	Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	
susiness Intelligence	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	
Alarm I/O	2 configurable I/O ports	2 configurable I/O ports	
Audio I/O	Selectable (mic in/line in) / Line out	Selectable (mic in/line in) / Line out	
/ideo Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	
esolution / Max. Frame Rate	6MP/30fps	6MP/30fps	
ViseStream	WiseStream II	WiseStream II	
treaming	Up to 10 profiles	Up to 10 profiles	
dge Storage	Micro SD/SDHC/SDXC 2slots(512GB)	Micro SD/SDHC/SDXC 2slots(512GB)	
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	
Operating Temperature	-50°C~+60°C (-58°F ~ +140°F) / Less than 95% RH (non condensing) * Start up should be done at above -30°C	-50°C∼+60°C (-58°F ∼ +140°F) / Less than 95% RH (non condensing) * Start up should be done at above -30°C	
Certification	IP66/IP67, IK10, NEMA4X	IP66/IP67/IP6K9K, IK10+, NEMA4X	
Power Consumption	PoE : typ 10.5W, max 12.95W 12VDC : typ 9.4W, max 12.5W 24VAC : typ 11.2W, max14.5W	PoE: typ 10.7W, max 12.95W 12VDC: typ 9.0W, max 11.5W 24VAC: typ 11.0W, max13.5W	
Dimensions WxHxD / Weight)	Ø91 x 368.6mm (Ø3.85" x 14.51") 2.2kg (4.85lb)	Ø180 x 125mm (Ø7.09" x 4.92") 1.9kg (4.18lb)	







XND-8082RF

XND-8082RV

XNB-8002

1/2.8" CMOS	1/2.8"CMOS	1/2.8"CMOS	
Color: 0.05Lux (F1.2, 1/30sec) B/W: OLux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: OLux (IR LED On)	Color: 0.05Lux (F1.2, 1/30sec) B/W: 0.005Lux	
Micro USB Type B	Micro USB Type B	Micro USB Type B	
2.8 ~ 8.4mm (3x) motorized varifocal	2.8 ~ 8.4mm (3x) motorized varifocal	-	
H: 114° (Wide) ~ 40.2° (Tele) / V: 62.0° (Wide) ~ 22.5° (Tele) / D: 133.0° (Wide) ~ 46.3° (Tele)	H: 114° (Wide) ~ 40.2° (Tele) / V: 62.0° (Wide) ~ 22.5° (Tele) / D: 133.0° (Wide) ~ 46.3° (Tele)	-	
0°~360°/-45°~85°/0°~355°	0°~360°/-45°~85°/0°~355°	None	
40m (131.23ft)	40m (131.23ft)	None	
Auto (ICR)/Color/BW/ External/Schedule	Auto (ICR)/Color/BW/ External/Schedule	Auto (ICR)/Color/BW/ External/Schedule	
extreme WDR	extreme WDR	extreme WDR	
SSNRV	SSNRV	SSNRV	
Support (built-in gyro sensor)	Support (built-in gyro sensor)	Support (built-in gyro sensor)	
Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	Intelligent Video Analytics Audio detection Sound classification Audio Playback Shock detection Face/upper body detection	
People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	People counting, Queue management, Heatmap	
2 configurable I/O ports	2 configurable I/O ports	2 configurable I/O ports	
Selectable (mic in/line in) / Line out	Selectable (mic in/line in/Built-in mic) / Line out	Selectable (mic in/line in/Built-in mic) Supply voltage: 2.5VDC (4mA), Input impedance: 2K Ohm	
H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	
6MP/30fps	6MP/30fps	6MP/30fps	
WiseStream II	WiseStream II	WiseStream II	
Up to 10 profiles	Up to 10 profiles	Up to 10 profiles	
Micro SD/SDHC/SDXC 2slots(512GB)	Micro SD/SDHC/SDXC 2slots(512GB)	Micro SD/SDHC/SDXC 2slots(512GB)	
ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	
-25°C ∼ $+60$ °C (-13 °F ∼ $+140$ °F) / Less than 95% RH (non condensing)	-25°C \sim +60°C (-13°F \sim +140°F) / Less than 95% RH (non condensing)	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 95% RH (non condensing)	
IP52, Plenum rate, IK10	IP52, IK10	-	
PoE : typ 10.7W, max 12.95W 12VDC : typ 9.0W, max 11.5W	PoE : typ 10.7W, max 12.95W 12VDC : typ 9.0W, max 11.5W	PoE: typ 8.2W, Max 12.95W 12VDC: typ 7.5W, Max 11.5W 24VAC: typ 8.9W, Max 13.5W	
Ø205 x163mm (Ø8.07" x 6.42") 1.95kg (4.29lb)	Ø160 x125mm (Ø6.30" x 4.92") 1.6kg (3.52lb)	W81 x D165 x H67mm (W3.19" x D6.48" x H2.64") 0.88kg (1.94lb)	

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