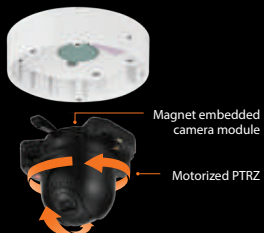# WISENET X PLUS

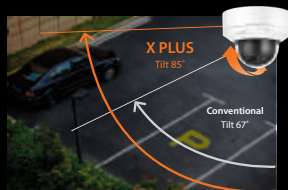## 2MP/5MP NW Modular Camera

**Faster installation
x Reduced costs**

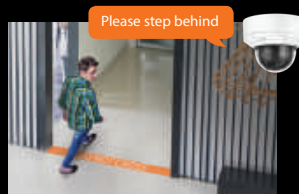**Advanced performance
x Multiplied values**

The X Plus cameras feature a modular design that makes installation and maintenance simpler than ever. With extended tilt range, motorized PTRZ and optional skin covers, you will soon discover why X Plus is one of the most versatile camera lines on the market.

Magnet embedded camera module

Motorized PTRZ

**Modular structure
And motorized PTRZ**

X PLUS
Tilt 85°

Conventional
Tilt 67°

**Extended tilt range for
greater flexibility**

Please step behind

Audio playback on event

Weather Cap   Black & Ivory Skin Cover

Optional accessories

Innovative Modular Design

Mounting Plate
Can be installed on site without other camera parts

Camera Case
Vandal Resistant Housing

Camera Module
This magnetically mounted 2 or 5 megapixel camera module can be installed without extra tools or hardware

Dome Cover
Polycarbonate dome cover

Paintable Ivory Skin Cover Included
Can be painted to blend into your environment

WISENET

WISENET X series

Multi-frame WDR(150dB)

Conventional WDR captures images by taking 2 frames taken at different exposures, whereas Wisenet X series cameras utilize 4 frame capture at different exposure levels to create a combined image. With the development of cutting-edge WDR technology, Wisenet X series cameras address a limitation found in conventional WDR cameras while producing clear and vivid images.
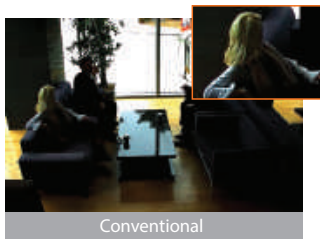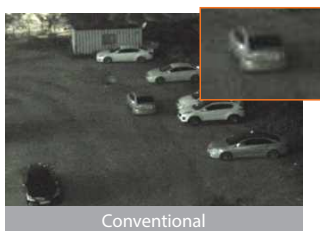
Conventional

Wisenet X series

※150dB WDR only available in 2MP X series

Digital Image Stabilization(DIS) with built-in Gyro sensor

Advances in Wisenet image stabilization technology allows the reduction of motion blur caused by wind or vibration. A gyroscopic sensor plus DIS technology is specifically added to the Wisenet X series cameras for more accurate stabilization.

Conventional

Wisenet X series

extraLUX provides clear and colored images, even in low-light environments

Wisenet X series achieves optimal performance in low-light conditions by producing crystal-clear and true-color images without IR LEDs, regardless of the environment or time of day. The extraLUX series (XNO-6085R, XND/XNV-6085(V)) feature outstanding F0.94 lens with the 1/2" CMOS sensor, capturing vivid color images even in low-light environments.
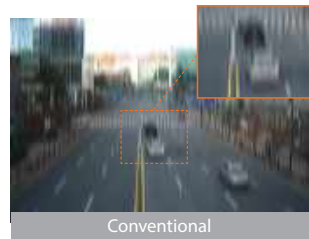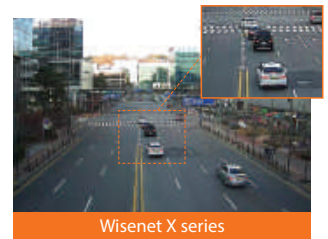
Conventional

extraLUX(XNV-6085)

Improve bandwidth by up to 75% using WiseStream II

Using WiseStream II , Hanwha Techwin's original video compression technology, the Wisenet X series reduces data by up to 99% compared to current H.264 technology, when combined with H.265 compression. System costs are also greatly reduced without comprising image quality.

Low movement

Medium movement

High Compression

Low Compression

WiseStream II OFF : 7160kbps
WiseStream II ON : 74kbps

WiseStream II OFF : 7260kbps
WiseStream II ON : 1817kbps

Easy Installation with Modular Structure and Motorized PTRZ

When combined, the unique modular design of the Wisenet X series Plus camera and motorized PTRZ camera module make on-site installation simple and pain free.*
Additionally, the product package has been reformulated to allow technicians quick access to the camera's network port for easy staging of product, saving time (and money) during installation and maintenance.

*Varies by model

Magnet embedded
camera module

Motorized PTRZ
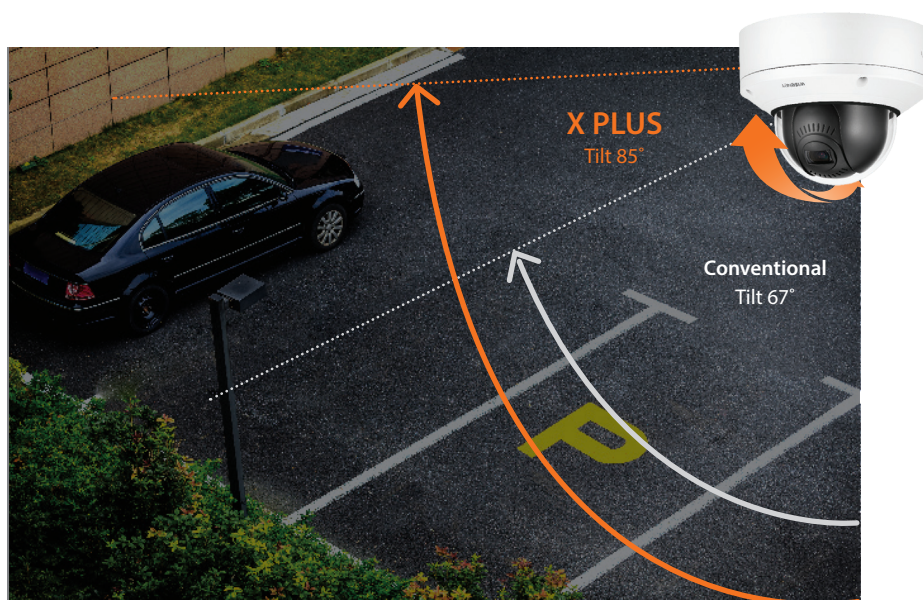
Installer friendly package allows access to a camera's network port while still in the box.

Extended Tilt Range for Greater Flexibility

Extended tilt angle has been added for greater flexibility in placement and use cases of Wisenet X Plus cameras.

X PLUS
Tilt 85˚

Conventional
Tilt 67˚

WISENET

Advanced DIS and Shock Detection with Built-in Gyro Sensors

Wisenet X Plus cameras have built-in gyro sensors to enable advanced DIS with reduced motion blur and shock detection which detects when the camera is hit.
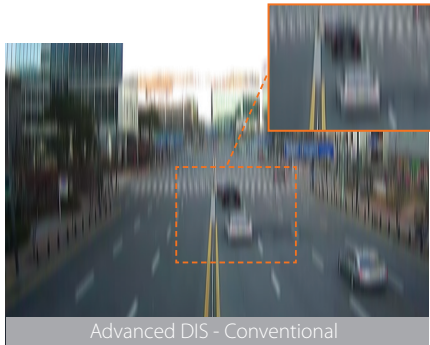
Advanced DIS - Conventional

Advanced DIS - **Wisenet X PLUS**

Shock Detection

High Reliability in Challenging Environments

One of the most important features of a security camera is reliability in challenging environments. Wisenet X PLUS cameras offer high reliability by providing resistance to weather and impact with IP67, IP66, IP6K9K, IK10+ ratings, and NEMA 4X rating.

IP67, IP66, IP6K9K

IK10+

-50℃ ~ 60℃

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Audio Playback on Event

Wisenet X series Plus cameras allow system operators to communicate with the public by using audio playback as a response to user-defined events.

"Please step behind the line."

Wisenet X series Plus Configurations

Category	Outdoor Vandal Dome			Indoor Vandal Dome			Flush Mount Dome		
Feature	Non-IR	IR	PTRZ	Non-IR	IR	PTRZ	Non-IR	IR	PTRZ
2MP Model	XNV-6081	XNV-6081R	XNV-6081Z	XND-6081V	XND-6081RV	XND-6081VZ	XNV-6081F	XNV-6081RF	XNV-6081FZ
5MP Model		XNV-8081R	XNV-8081Z		XND-8081RV	XND-8081VZ		XNV-8081RF	XNV-8081FZ

• IP67/IP66/IP6K9K • IK10+ • NEMA 4X • -58°F ~ +140°F	• IP52/IK10 • -13°F ~ +140°F	• IP52/Plenum Rated (UL2820) • -13°F ~ +140°F

Optional Accessories for Various Applications

Included with each camera is a paintable ivory skin cover along with a weather cap for all outdoor models. Other optional accessories include black colored skin covers, an AC24V power module, and a plethora of mounting options to suit your environment.

Weather cap

Ivory & Black skin cover

Weather cap(XNV only) and ivory skin cover(XNV and XND) are included in product package.
The weather cap can not be applied with the skin cover on.

SBC-180B

Skin cover
Compatible with XNV-6081Z/8081Z

SBC-160B

Skin cover
Compatible with XND-6081Z/8081Z

SPC-100AC

AC24V power module
Compatible with XNV-6081Z/8081Z

SBP-187HMW / 187HM

Hanging mount
Compatible with XNV-6081Z/8081Z

SBP-167HMW / 167HM

Hanging mount
Compatible with XND-6081Z/8081Z

SBP-300WMW1 / WM1

Wall mount
Compatible with SBP-180HMW/160HMW

SBP-300KMW / 300KM

Corner mount
Compatible with SBP-300WMW1

SBP-300PMW / 300PM

Pole mount
Compatible with SBP-300WMW1

SBP-300CMW / 300CM

Celling mount
Compatible with SBP-180HMW/160HMW

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WISENET X PLUS

	Wisenet X PLUS **XND-6081VZ**	Wisenet X PLUS **XND-6081FZ**	Wisenet X PLUS **XNV-6081Z**
Type	Indoor vandal dome	Indoor flush mount	Outdoor vandal dome
Imaging Device	1/2.8" 2M CMOS		
Video Compression Format	H.265, H.264, MJPEG		
Resolution / Max. Frame Rate	2M/60fps		
Streaming Capacity	Multiple (Up to 10 Profiles)		
Max. User Access	20 (Unicast)		
Min. Illumination	Color : 0.15Lux B/W : 0.0015Lux		
Video Output	CVBS 1.0Vpp, Micro USB type B		
Lens	2.8~12mm (4.3x) motorized V/F (F1.4)		
Angular Field of View	H : 119.5°(Wide) ~ 27.9°(Tele) / V : 62.8°(Wide) ~ 15.7°(Tele)/ D : 142.1°(Wide) ~ 32.0°(Tele)		
Focus Control	Simple focus (motorized V/F) / Manual		
Pan / Tilt / Rotate	±175° / 0~85° / ±175°		
Day & Night	True (ICR)		
Backlight Compensation	WDR (150dB)		
Digital Noise Reduction	SSNR**V** (2D+3D Noise filter)		
Digital Image Stabilization	Support (Built in Gyro sensor)		
Video & Audio Analytics	Tampering, Loitering, Directional detection, Fog detection,Virtual line, Enter/Exit, (Dis)Appear, Audio detection, Face detection, Motion detection, Sound classification, Shock detection, Heatmap, Peaple counting, Queue management, Audio Playback on event		
Protocol	ONVIF profile S/G, SUNAPI		
	1/1		
Audio	Bi-Directional		
Edge Storage	SD/SDHC/SDXC, NAS, Local PC		
Environment Protection	IP52, IK10	IP52, Plenum rated(UL2820)	IP67, IP66, IP6K9K, NEMA 4X, IK10+
Operating Temperature	-25℃ ~ +60℃ (-13°F ~ +140°F)		-50℃ ~ +60℃ (-58°F ~ +140°F) *Start up above -35℃ (-31°F)
Power	Max. 8.5W (12V DC) Max.10W (PoE)		Max. 11W (24V AC) Max. 9.5W (12V DC) Max. 11W (PoE)
Dimensions (WxHxD) / Weight	Ø160 x 125mm (6.30" x 4.92") 1.45Kg (3.2 lb)	Ø205 x 155mm (8.07" x 6.10") 1.85Kg (4.08 lb)	Ø180 x 125mm (7.09" x 4.92") 1.75kg (3.86 lb)
Additional Features	Motorized Pan / Tilt / Rotate, Modular design		

※ Design and specifications are subject to change without notice.

Accessory Configuration

XNV-6081Z/8081Z

White Acc

SBP-187HMW
Hanging Mount

SBP-167HMW
Hanging Mount

SBP-300CMW
Ceiling Mount

SBP-300WMW1
Wall Mount

SBP-300WMW
Wall Mount (swan-neck)

SBP-300PMW
Pole mount

SBP-300KMW
Corner mount

XND-6081VZ/8081VZ

Ivory Acc

SBP-187HM
Hanging Mount

SBP-167HM
Hanging Mount

SBP-300LM
Parapet Mount

SBP-300CM
Ceiling Mount

SBP-300WM1
Wall Mount

SBP-300WM
Wall Mount (Swan-neck)

SBP-300NB
Installation Box

SBP-300B
Wall Mount Base

SBP-300PM
Pole Mount

SBP-300KM
Corner Mount

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2MP/5MP NW Modular Camera

Wisenet X series Plus cameras combine the power of Hanwha's Wisenet 5 chipset with an innovative modular design that lowers overall cost of installation, configuration, and maintenance while increasing the performance, feature-set, and survivability of our X series product line.