



Network

# XNV-6123R

2MP AI IR Vandal Dome Camera



## Key Features

- Maximum 2MP resolution
- 0.03Lux@F1.6 (Color), 0Lux (B/W, IR LED on)
- Day & Night (ICR), WDR (150dB)
- Hallway View, WiseNR II (Based on AI engine), WiseStreamIII (Based on AI engine) Support
- Analytics events based on AI engine (NPU) : Object detection (Person/Face/Vehicle - car, truck, bus, bicycle, motorcycle/License plate)
- Analytics events : Defocus detection, Motion detection, Tampering, Fog detection  
Audio detection, Sound classification, Shock detection, Appear/Disappear
- PoE, 12VDC
- IP66/IP67/IP6K9K, NEMA4X, IK10+

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## Specifications

Video	
Imaging Device	1/2.8" progressive CMOS
Resolution	1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 120fps/100fps(60Hz/50Hz)(WDR off) Max. 60fps/50fps(60Hz/50Hz)(WDR on) MJPEG: Max. 30fps
Min. Illumination	Color: 0.03Lux(F1.6, 1/30sec, 30IRE) B/W : 0.003Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on), 30/25fps  Color: 0.06Lux(F1.6, 1/60sec, 30IRE) B/W: 0.006Lux(F1.6, 1/60sec, 30IRE), 0Lux(IR LED on), 60/50fps  Color: 0.12Lux(F1.6, 1/120sec, 30IRE) B/W: 0.012Lux(F1.6, 1/120sec, 30IRE), 0Lux(IR LED on), 120/100fps
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)	5.2~62.4mm(12x) zoom(digital 32x, total 384x zoom)
Max. Aperture Ratio	F1.6(Wide)~F3.0(Tele)
Angular Field of View	H: 55-(Wide)~5-(Tele) V: 33-(Wide)~3-(Tele) D: 62-(Wide)~6-(Tele)
Min. Object Distance	2.1m(6.89ft)
Focus Control	Oneshot AF, Focus save
Lens Type	DC auto iris
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~360° / -45°~80° / 0°~355°
Sequence	Preset(300ea)
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSSDR
Wide Dynamic Range	extremeWDR(150dB)
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNR V
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	32ea, 4point Quadrangle zones - Color: Gray/Green/Red/Blue/Black/White - Mosaic

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

Hanwha Vision is formerly known as Hanwha Techwin.

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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(Based on AI engine)
Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear)
Alarm I/O	2 configurable I/O ports, DC 12V output(Max. 50mA)
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 - 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) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
Audio Out	Line out, Max.output level: 1Vrms
IR Viewable Length	WiseIR 90m(295.28ft)

## Network

Ethernet	Metal shielded RJ-45(10/100/1000BASE-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 , WiseStreamIII(Based on AI engine)
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, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT
Security	TPM 2.0(FIPS 140-2 level 2) HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) Device Certificate(Hanwha Techwin Root CA, pre-installed) Secure by default certificate Secure OS/Boot/Storage, Verify firmware forgery
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API) Wisenet open platform

## General

Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian
Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 1TB(512GB * 2)
Memory	2GB RAM, 512MB Flash

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**Environmental & Electrical**

Operating Temperature / Humidity	-40°C~+60°C(-40°F~+140°F) * Start up should be done at above -30°C 0~95% RH(Non-condensing) Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C~+60°C (-58°F~+140°F) / 0~95% RH(Non-condensing)
Certification	IP66/IP67/IP6K9K, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9), IK10+
Input Voltage	PoE+(IEEE802.3at, Class4), 12VDC
Power Consumption	PoE+: Max 19.5W, typical 15.5W 12VDC: Max 16.5W, typical 13.1W Power redundancy failover

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**Mechanical**

Color / Material	White / Aluminum Hard-coated dome bubble
RAL Code	RAL9003
Product Dimensions / Weight	ø180x138mm(ø7.09x5.43"), 2130g(4.70 lb)
Compatible Conduit hole / Gangbox	19.1mm(3/4")(M25) single, double, 4" octagon, 4" square
Hanging Mount (Dome)	SBP-187HMW

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**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/EN 62471
Environment	IEC/EN 63000 IEC/EN 60529 IP66/IP67, ISO 20653 IP6K9K, IEC/EN 62262 IK10+ NEMA TS 2-2013(2.2.8, 2.2.9) NEMA 250 type 4X

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**DORI (EN62676-4 standard)**

Detect (25PPM/ 8PPF)	Wide: 73.8m(242.01ft) / Tele: 879.5m(2885.51ft)
Observe (63PPM/ 19PPF)	Wide: 29.5m(96.81ft) / Tele: 351.8m(1154.21ft)
Recognize (125PPM/ 38PPF)	Wide: 14.8m(48.40ft) / Tele: 175.9m(577.10ft)
Identify (250PPM/ 76PPF)	Wide: 7.4m(24.20ft) / Tele: 88.0m(288.55ft)

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CAD

Unit:mm [inch]

