



Network

Dome

XNV-C6083R

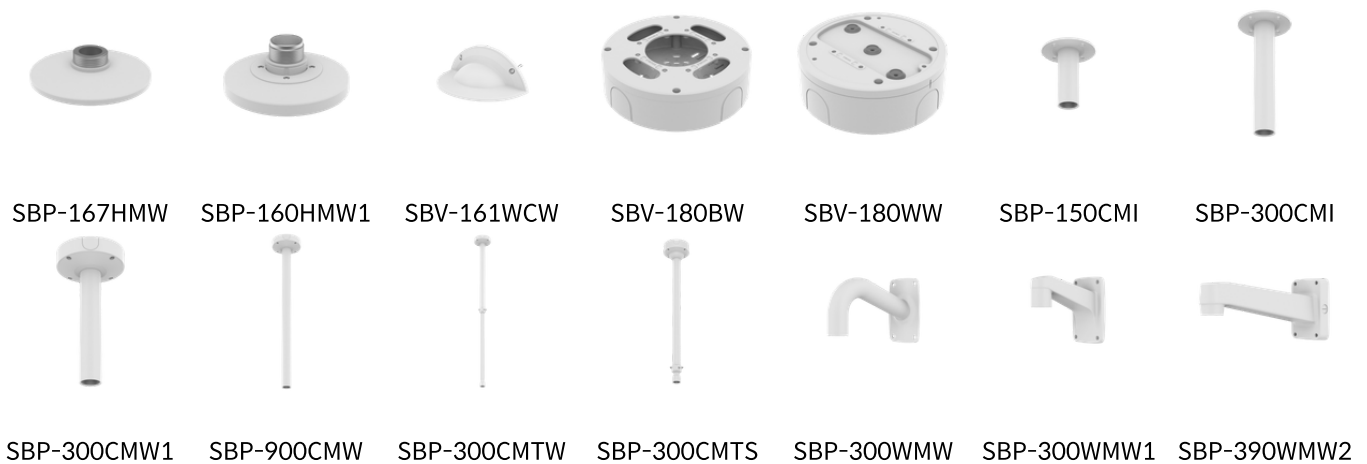
2MP AI IR Vandal Dome Camera



Key Features

- 2MP resolution
- 2.8~12mm (4.3x) motorized varifocal
- Color: 0.011 Lux (F1.4, 1/30sec, 30IRE), 0 Lux (IR LED on)
- Maximum 60 fps@2MP (H.265/H.264)
- WiselR: IR viewable length 40m (131.23 ft)
- Day & Night (ICR), extremeWDR (150 dB)
- DIS with built-in Gyro sensor
- Hard-coated dome bubble
- Analytics events based on AI engine (NPU) : Object detection (Person/Face/Vehicle - car, truck, bus, bicycle, motorcycle/License plate), IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion)
- Analytics events : Defocus detection, Motion detection, Tampering, Fog detection
- Audio detection, Sound classification, Shock detection, Appear/Disappear
- IP66, IP67, NEMA4X, IK10

Compatible Devices



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Specifications

Video

Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution	320x240, 1280x720, 1280x1024, 720x480, 1280x960, 1024x768, 1920x1080, 720x576, 640x360, 640x480, 800x600, 800x448	
Max. Framerate	H.265/H.264	60fps/50fps(60Hz/50Hz)
	MJPEG	30fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.01
	BW(1/30sec, 30IRE)	0.001
Video Out	USB: Micro USB Type B	

Lens

Focal Length (mm)	2.8~12	
Zoom Ratio	Optical	4.3x
Max Aperture Ratio (F number)	Wide	1.4
	Tele	3.6
Angular Field of View	Horizontal	120°~27°
	Vertical	63°~15°
	Diagonal	143°~32°
Min. Object Distance	0.5m(1.64ft)	
Focus Control	Manual, Simple focus	
Lens Type	DC auto iris with hall sensor(IR corrected)	

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~360°
	Tilt	0°~75°
	Rotate	0°~355°

Operational

Day & Night	Auto(ICR)
Backlight Compensation	BLC, SSSDR, WDR, HLC

Operational

Wide Dynamic Range (dB)		150
Digital Noise Reduction		SSNR V , WiseNR II (Based on AI engine)
Digital Image Stabilization		Support(built-in gyro sensor)
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	4point Quadrangle zones
	Color / Option	Red, Green, Blue, White, Mosaic, Black, Gray
Gain Control		Manual, Max gain, Off
White Balance		Indoor, AWC, NarrowATW, ATW, Outdoor, Manual
LDC		Support(Fill/stretch mode)
Electronic Shutter	Mode	Anti flicker, Maximum, Minimum, Prefer shutter control(Based on AI engine)
	Speed Range	2~1/12,000sec
Video Rotation		Flip, Hallway view(90°/270°), Mirror
Alarm Interface	In/Out	2 configurable I/O ports
Alarm Triggers		Network disconnect, Time schedule, Alarm input, MQTT subscription, App event, Analytics
Alarm Events When Alarm Trigger Occurred		Handover: PTZ preset, send message by HTTP/HTTPS/TCP, MQTT: publication, Audio clip playback, Notification: e-mail, Alarm output, File upload(video clip): FTP/SFTP, Recording: SD/SDHC/SDXC or NAS recording at event triggers, File upload(image): e-mail/FTP/SFTP
Audio In		Selectable(mic in/line in)
Audio Out		Line out
Light Type		IR LED
Light Viewable Length	IR	WiseIR 40m(131.23ft)
IR Wavelength		850nm

Analytics

Classified Object Type		License plate, Face, Person, Vehicle
Attributes	Vehicle	Type(car, bus, truck, motorcycle, bicycle)
Thumbnail		DetectionShot
Analytics Events	Based on AI Engine	Virtual area(Loitering/Intrusion/Enter/Exit), Object detection, Virtual line(Crossing/Direction), Motion detection
	Normal	Shock detection, Tampering, Defocus detection, Virtual area(Appear/Disappear), Audio detection, Fog detection, Sound classification
Business Intelligence	Based on AI Engine	People counting, Vehicle counting, Queue management, Heatmap

Network

Ethernet	Metal shielded RJ-45(10/100BASE-T)
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Network

Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression		G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps, G.711 u-law /G.726 selectable, AAC-LC: 48Kbps at 16KHz, G.726(ADPCM) 8KHz, G.711 8KHz
Smart Codec		WiseStreamIII, Manual
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles
Protocol		HTTP, RTP(UDP), IPv4, HTTPS, FTP, NTP, TCP/IP, ARP, DHCP, RTCP, IPv6, QoS, SMTP, DDNS, IGMP, SFTP, UPnP, CDP, LLDP, MQTT, RTSP, ICMP, SRTP(TCP, UDP Unicast), UDP/IP, Bonjour, DNS, SNMPv1/v2c/v3(MIB-2), RTP(TCP), SSL/TLS
Application Programming Interface	ONVIF	G, T, M, S
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Support

Security

OS / Firmware Protect	Signed firmware, Secure boot, Encrypted firmware
User authentication	Prevent brute-force attack, Digest authentication
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	WSS(WebSocket Secure), HTTPS, SRTP
Access Control	IP-based access control
Data Protect	Encrypt compress for live recording file export, Encryption credentials
Audit	Access / System / Event Log management
Device ID	Device certificate(Hanwha Vision Root CA)
Secure Storage	SDcard partition encrypt(AES-256), HTPM(Hanwha Trusted Platform Module)
Security Certificate	CyberSecurity assurance program UL CAP(UL 2900-2-3 L2)

General

Memory	RAM	2GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 512GB x 1slot

Environmental & Electrical

Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~100% RH(condensing)
	Others	Humidity control with AIR vent, Start up should be done at above -20°C
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3), 12VDC

Environmental & Electrical

Power Consumption	PoE	Max 12.95W, typical 10.8W
	12VDC	Max 12.5W, typical 10W

Mechanical

Color	White
Material	Aluminum, Hard-coated dome
RAL Code	RAL9003
Product Dimensions	ø160x118mm(6.30x4.65")
Product Weight	1,450g(3.20lb)
Compatible Conduit Hole	12.7mm(1/2")(M20)
Compatible Gang Box	Single, Double, 4" Octagon, Square

Certifications & Standards

EMC	VCCI CISPR 32 Class A, KS C 9832 Class A, KS C 9835, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, FCC 47 CFR 15 Subpart B Class A, RCM AS-NZS CISPR 32 Class A
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment	NEMA 250 type 4X, IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK10, IEC/EN 63000

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	22.2m(72.74ft)
	Tele	159.9m(524.76ft)
Observe (63PPM/ 19PPF)	Wide	8.9m(29.09ft)
	Tele	64.0m(209.90ft)
Recognize (125PPM/ 38PPF)	Wide	4.4m(14.55ft)
	Tele	32.0m(104.95ft)
Identify (250PPM/ 76PPF)	Wide	2.2m(7.27ft)
	Tele	16.0m(52.48ft)

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CAD

Unit: mm [inch]

