

HNC3V251R-IR-ZS

5MP WDR IR Dome Network Camera



System Overview

The IR Megapixel Vari-focal camera delivers 5MP resolution with a 2.7mm – 13.5mm varifocal lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Intelligent Video analysis (IVS)

This camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

- · 1/2.7" 5Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- $\cdot 15 \text{fps}@5M(2592\times1944)\&25/30 \text{fps}@3M(2304\times1296)$
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 2.7~13.5mm varifocal lens
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE









With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the

intensity of camera's infrared LEDs to compensate the distance of

an object. Smart IR technology prevents IR LEDs from whitening out

images as they come closer to the camera. The camera's integrated

infrared illumination provides high performance in extreme low-light





Protection (IP67, IK10, wide voltage)

environments up to 30m (98ft).

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

Environmental

This cameras operate in extreme temperature environments, rated for use in temperatures from -30° C to +60° C (-22° F to +140° F) with 95% humidity.

Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Camera Day/Night Auto(ICR) / Color / B/W Image Sensor 1/2.7" 5Megapixel progressive CMOS BLC Mode BLC / HLC / WDR(120dB) Effective Pixels 2592(H) x1944(V) White Balance Auto/Natural/Street Lamp/Outdoor/Manual RAM/ROM 512MB/32MB Gain Control Auto/Manual Scanning System Progressive Noise Reduction 3D DNR Electronic Shutter Speed Auto/Manual, 1/3-1/100000s Motion Detection Off / On (4 Zone, Rectangle) Minimum Illumination 0.02Lux/F1.6 (Color,1/3os,30IRE) OLux/F1.6 (Color,1/3os,30IRE) OLUx/F1.6 (Color,1/3os,30IRE) OLUX/F1.6 (Color,1/3os,30IRE) OLUX/F1.6 (Color,1/3os,30IRE) OLUX/F1.6 (Color,1/3os,30IRE) Region of Interest Off / On (4 Zone, Rectangle) S/N Ratio More than 50dB Smart IR Support IR Distance Distance up to 30m(98ft) Smart IR Support IR On/Off Control Auto/ Manual Digital Zoom 16x IR LEDS 2 Filip 0°/90°/180°/270° Lens Vm Motorized(-ZS), Manual(-VFS) Privacy Masking Off / On (4 Area, Rectangle) Mount Type Board-in Audio Mount Type Board-in Compression N/A Max. Aperture F1.6 Network Angle of Vie	Technical Specification					В	it Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps	
Right Service 19,27° SMesquipled progress 19,28° SMesquip	Camera						D	ay/Night	·
## Priority 1970 1	Image Sensor		1/2.7" 5Megapixel progressive CMOS						BLC / HLC / WDR(120dB)
RAM/PROM	Effective Pixels		2592(H) x1944(V)						
Progressive	RAM/ROM		512MB/32MB						
Motion Detection Mula Manual, 17-1/100000-	Scanning System		Progressive						
Modername Munimum M	Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s						
Solitation More than 50 More	Minimum Illumination		0.2Lux/F1.6(Color,1/30s,30IRE)						
R On/Off Control	S/N Ratio							_	N/A
RILEDS	IR Distance		Distance up to 30m(98ft)				Si	mart IR	Support
Milror	IR On/Off Contro	ol	Auto/ Manual					igital Zoom	16x
Privacy Musking Off / On (4 Area, Rectangle)	IR LEDs		2					lip	0°/90°/180°/270°
Mount Type Board-in Audio Compression N/A	Lens							1irror	Off / On
Focal Length	Lens Type		Motorized (-ZS), Manual (-VFS)					rivacy Masking	Off / On (4 Area, Rectangle)
Max. Aperture	Mount Type		Board-in					Audio	
Angle of View	Focal Length		2.7mm~13.5mm					ompression	N/A
Motorized(-ZS), Manual(-VFS)	Max. Aperture		F1.6				Ν	letwork	
Close Focus Distance	Angle of View		H:95°~27°, V:70°~20°				Ef	thernet	RJ-45 (10/100Base-T)
Lens	Focus Control		Motorized(-ZS),Manual(-VFS)				P	rotocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DH CP;DNS;DDNS;PPPOE; Pv4/v6;Qos;UPnP;NTP;Bonjc
DORI Distance	Close Focus Dist							nteroperability	
T 222m(728ft) 89m(292ft) 44m(144ft) 22m(72ft) Max. User Access 10 Users / 20 Users					_	ŕ			
PTZ	DORI Distance			` ′				-	
Pan/Tilt Range Pan.0° ~355°; Tilt.0° ~75°; Rotation.0° ~355° Intelligence Web Viewer IE, Chrome, Firefox, Safari Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal acess, Storage anomaly IVS Tripwire, Intrusion Certifications Video Compression H.265+/H.265+/H.264+/H.264 Smart Codec Support H.265+/h.265+ Streaming Capability 2 Streams M(2560×1440)/(2304×1296)/1080P(1920×1080)/ SXSA(1280×2041)-3M(1280×960)/720P(1280×720)/ D1/(704×576/704×480)/VGA(640×480)/ D1/(704×576/704×480)/VGA(640×480)/ ETAMPERATE Pane Rate Edge Storage Local PC for instant recording Micro SD Card 128GB Metro SD Card 128GB Management Software Smart Postors Fourity Certifications Video Interface N/A Audio Interface N/A Audio Interface N/A R5485 N/A Alarm N/A Power Supply DC12V PoE (802.3af)(Class 0) DC12V PoE (802.3af)(Class 0)		Т	222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)	IV	iax. User Access	
Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal acess, Storage anomaly				Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°				Edge Storage	Local PC for instant recording
Event Trigger changing,Network disconnection,IP address conflict,Illegal acess,Storage anomaly Smart Phone IOS, Android IVS Tripwire, Intrusion Certifications VideO Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Compression H.265+/H.265+/H.264+ Interface Smart Codec Support H.265+/h.265+ Interface Streaming Capability 2 Streams Video Interface N/A Resolution SM(2592×1944)/4M(2688x1520)/ (2560×1440)/(2304x1296)/1080P(1920x1080)/ SXGA(1280x1024)/1.3M(1280x 960)/720P(1280x720)/ DI/O4x576/704x480)/VGA(6400x480)/ CIF(352x288/352x240) Audio Interface N/A Frame Rate 5M(1 ~15fps)/3M(1 ~ 25/30fps) Electrical Frame Rate DI/CIF(1 ~ 20/25fps) Power Supply DC12V PoE (802.3af)(Class 0)								Veb Viewer	IE, Chrome, Firefox, Safari
Conflict, legal acess, storage anomaly Smart Phone IOS, Android								lanagement Software	Smart PSS, DSS, DMSS
Video Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Compression H.265+/H.265+/H.264+/H.264 Interface Smart Codec Support H.265+/h.265+ Interface Streaming Capability 2 Streams Video Interface N/A Resolution SM(2592×1944)/4M(2688×1520)/ (2560×1440)/(2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240) Audio Interface N/A RS485 N/A Alarm N/A Frame Rate 5M(1 ~15fps)/3M(1 ~ 25/30fps) Electrical Power Supply DC12V PoE (802.3af)(Class 0)	Event Trigger							mart Phone	IOS, Android
Compression H.265+/H.264+/H.264 Smart Codec Support H.265+/h.265+ Streaming Capability 2 Streams SM(2592×1944)/4M(2688x1520)/ (2560x1440)/(2304x1296)/1080P(1920x1080)/ SXGA(1280×1024)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240) SM(1 ~15fps)/3M(1 ~ 25/30fps) Bit Rate Control Certifications UL:UL60950-1 FCC: FCC Part 15 Subpart B UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Audio Interface N/A RS485 N/A Alarm N/A Electrical Power Supply DC12V PoE (802.3af)(Class 0)	IVS		Tripwire, Intrusion					Certifications	
Smart Codec Support H.265+/h.265+ Interface Streaming Capability 2 Streams Video Interface N/A Resolution 5M(2592×1944)/4M(2688x1520)/ (2560×1440)/(2304x1296)/1080P(1920x1080)/ SXGA(1280×1024)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240) Audio Interface N/A RS485 N/A Alarm N/A Frame Rate D1/CIF(1 ~ 20/25fps) Electrical D1/CIF(1 ~ 20/25fps) Power Supply DC12V PoE (802.3af)(Class 0)								ertifications	UL:UL60950-1
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Frame Rate D1/CIF(1 ~ 20/25fps) Power Supply DC12V PoE (802.3af)(Class 0) Bit Rate Control CBR/VBR CBR/VBR									
D1/CIF(1 ~ 20/25fps) Power Supply DC12V PoE (802.3af)(Class 0) Bit Rate Control CBR/VBR	Frame Rate		5M(1 ~15fps)/3M(1 ~ 25/30fps)					Electrical	
			D1/CIF(1 ~ 20/25fps)					ower Supply	DC12V PoE (802.3af)(Class 0)
	Bit Rate Control		CBR/VBR					ower Consumption	<9.5W(-ZS), <7.5W(-VFS)

Lite Series | HNC3V251R-IR-ZS

Environmental

Operating Conditions	-30° C \sim +60° C (-22° F \sim +140° F) / Less than 95% RH
Strorage Conditions	-30° C \sim +60° C (-22° F \sim +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	φ122mm×88.9mm(4.80"x3.50")
Net Weight	0.4Kg (0.88lb)
Gross Weight	0.54Kg(1.19lb)

Accessories

Optional:











PFA137 **Function Box**

PFB203W

PFA152-E Wall mount Pole mount In-celling Box

PFB200C

Rain shade

Junction Mount	Inceiling Mount
PFA137	PFB200C
Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152-E
Wall Mount with Rain Shade	Pole Mount with Rain Shade
PFA137+PFA200W	PFA137+PFA152-E+PFA200W

Dimensions (mm/inch)

