

PT-NC147D3-WNRAM(D2)

## 4 MP Dual Light Varifocal Dome Network Camera



### Highlights

- **High-Quality Imaging:** 4MP resolution ensures superior image quality.
- **Target Classification:** Focus on human and vehicle classification based on advanced intelligent algorithms.
- **Superior Imaging in Backlight:** Clear imaging against strong back light due to 120 dB WDR technology
- **Audio Security:** Built-in microphone for real-time audio security
- **On-Board Storage:** Supports storage up to 512 GB (SD card slot)
- **Motorized Focus Lens:** 2.8 to 12 mm motorized Varifocal lens for easy installation and monitoring
- **Durable Design:** Water and dust resistant (IP67)

## Specification

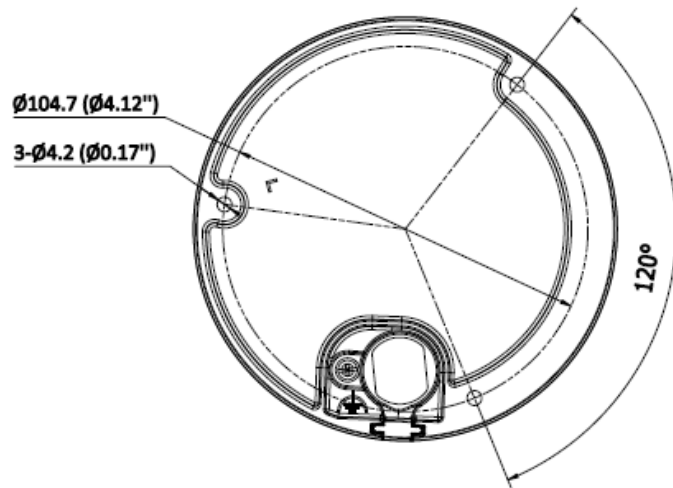
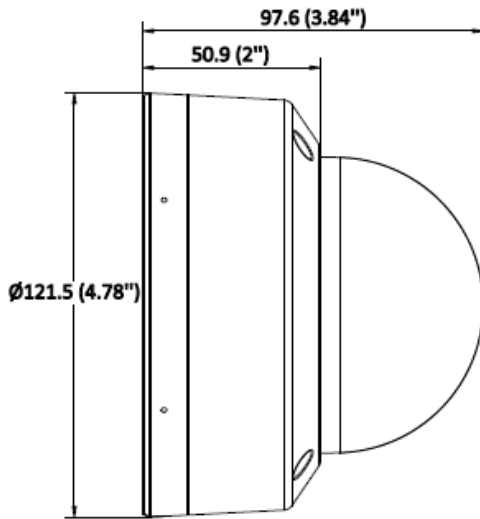
Camera	
Image Sensor	1/3 inch Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
Shutter Time	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 70°, rotate: 0° to 355°
Lens	
Lens Type	Motorized varifocal lens, 2.8 to 12 mm
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 96.7° to 29.7°, vertical FOV 51.7° to 16.7°, diagonal FOV 114.3° to 34°
Lens Mount	Ø14
Iris Type	Fixed
Aperture	F1.6
DORI	
DORI	D: 64.0 to 198.0 m, O: 25.4 to 78.6 m, R: 12.8 to 39.6 m, I: 6.4 to 19.8 m
Illuminator	
Supplement Light Type	IR, White Light
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 20 fps (2560 × 1440) 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2560 × 1440) 24 fps (1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 24 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.265/H.264, Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR, VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream
Audio	
Audio Type	Mono sound
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)
Audio Sampling Rate	8 kHz/16 kHz
Environment Noise Filtering	Yes
Network	
Protocols	TCP/IP, UDP, Multicast, NTP, DDNS, SNMP, QoS, DHCP, IPv4, IPv6, DNS, HTTP, HTTPS, RTSP, SRTP/RTSPS, Bonjour, NAT, RTCP, UPnP, ONVIF, SSH, SMTP
Simultaneous Live View	Up to 6 channels

API	ONVIF (Profile S, Profile G, Profile T)
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Security	Password protection, complicated password, watermark, digest authentication for HTTP, WSSE and digest authentication for ONVIF, TLS 1.3
Web Browser	Plug-in required live view: IE 10, IE 11, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
<b>Image</b>	
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	4 programmable polygon privacy masks
<b>Interface</b>	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support micro SD/micro SDHC/micro SDXC card, up to 512 GB
Built-in Microphone	Yes, 1 built-in microphone
Audio	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium
Alarm	1 input, 1 output (max. 12 VDC, 30 mA)
Reset Key	Yes
<b>Event</b>	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Linkage	Upload to FTP/SFTP/memory card, notify surveillance center, send email, trigger recording, trigger capture, audible warning, trigger
<b>General</b>	
Power	12 VDC $\pm$ 25%, 0.8 A, max. 9.6 W, $\emptyset$ 5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 12 W
Material	Base: metal, cover: plastic
Dimension	$\emptyset$ 121.5 mm $\times$ 97.6 mm ( $\emptyset$ 4.78 inch $\times$ 3.84 inch)
Package Dimension	150 mm $\times$ 150 mm $\times$ 141 mm (5.90 inch $\times$ 5.90 inch $\times$ 5.55 inch)
Weight	Approx. 540 g
With Package Weight	Approx. 740 g
Storage Conditions	-30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
General Function	Heartbeat, anti-banding, mirror, password protection, password reset via email
Protection	IP67

\*Specifications are subject to change without prior notice. \*Product picture may differ as per actual.

Available Model  
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### Dimension



Unit: mm (inch)