

# SN-IPR8041CBAN-Z

**4MP Starlight IR Varifocal Bullet Network Camera** 



### **Key Features**

- 1/1.8" progressive scan CMOS
- Max. 4MP(2560×1440) @25/30fps resolution
- 3.6 to 11 mm motorized focal lens
- Support face, human, vehicle detection and capture
- Intelligent analysis: intrusion, single / double line crossing, loitering, wrong-way detection, smart motion detection (SMD), and people counting
- True WDR, 3D DNR, ROI, Defog, HLC
- Smart IR distance up to 50 m
- Built-in mic and speaker, 1/1 audio input/output, 1/1 alarm input/output
- Built-in micro SD card slot
- IP66 protection





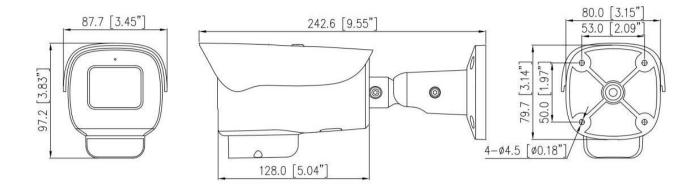
## **Specification**

Camera		
Image Sensor	1/1.8" Progressive Scan CMOS	
Max. Resolution	4MP, 2560(H) × 1440(V)	
Electronic Shutter	Auto/Manual, 1/5 to 1/20,000s	
Min. illumination	Color: 0.0008 Lux @ (F1.3, AGC ON), 0 Lux with light	
Day & Night	Auto (ICR)	
Wide Dynamic Range	True WDR	
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 90°, Rotation: 0° to 360°	
Lens		
Lens Type	Varifocal lens, Motorized focal	
Iris	DC Iris	
Focal Length	3.6 to 11 mm	
Max. Aperture	F1.3	
Field of View (FOV)	H: 113.8° to 50.9°, V: 59.4° to 28.6°	
DORI Distance		
Detect	60 to 130 m (196.85 to 426.51 ft)	
Observe	24 to 52 m (78.74 to 170.60 ft)	
Recognize	12 to 26 m (39.37 to 85.30 ft)	
Identify	6 to 13 m (19.69 to 42.65 ft)	
DORI (Detect, Observe, Recognize, and Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances.		
Illuminator		
Illuminator Type	IR	
Illumination Distance	IR distance up to 50 m (164.0 ft)	
Illumination On/Off Control	Auto/Manual	
IR wavelength	850 nm	
Intelligent Analytics		
Multi-Object Detection	Supports face, human, vehicle detection and capture.	
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way detection, Illegal parking, and Smart motion detection Support alarm triggering by specified target types (human and vehicle)	

Video and Audio           Streaming Capability         3 Streams           Streamin Frame Rate         Streams: 2560-1440, 2304-1296, 1920-1080, 1280-720 @ 25/30fps           Streamin Frame Rate         Streams: VSA, CIF, QVSA @ 25/30fps           Bit Rate Control         CBR/VBR           Bit Rate         Streams: 1200 Kbps to 12 Mbps           Streams: 100 Kbps to 3 Mbps         Streams: 100 Kbps to 3 Mbps           Smart Encoder         Support           Region of Interest (ROI)         Off/On (8 Zone, Rectangle)           Audio Compression         G.711 A-law, G.711 µ-law, RAM PCM           Audio Bit Rate         64 Kbps (G.711), 128 Kbps (RAW_PCM)           Interest (ROI)           Miles Adjustment           Brightness, Sharpness, Contrast, Saturation adjustable           Scene Mode           Indoor, Outdoor, Mirror, Corridor mode           Exposure Mode         Auto, Manual, Shutter priority           White Balance         Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual           Day/Night Setting         Auto, Day, Night, Timer           Noise Reduction         2D/3D DNR           Irrange Enhancement         HLC, BLC, Defog, WDR           Privacy Masking         4 areas           Event	People Counting	Support
Stream/Frame Rate Stream: 2560x1440, 2304x1296, 1920x1080, 1280x720 @ 25/30fps Stream: 210, VGA, CIF, QVGA, 25/30fps Stream: 200, KGA, CIF, QVGA, 25/30fps Bit Rate Control CBR/VBR Stream: 200 Kbps to 12 Mbps Stream: 100 Kbps to 6 Mbps Stream: 100 Kbps to 13 Mbps Stream: 100 Kbps to 6 Mbps Stream: 100 Kbps to 13 Mbps Smart Encoder Support Region of Interest (ROI) Off/On (8 Zone, Rectangle) Audio Compression G.711 A-law, G.711 µ-law, RAM PCM Audio Bit Rate 64 Kbps (G.711), 128 Kbps (RAW_PCM) Image Image Image Image Adjustment Brightness, Sharpness, Contrast, Saturation adjustable Scene Mode Indoor, Outdoor, Mirror, Corridor mode Exposure Mode Auto, Manual, Shutter priority White Balance Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual Day/Night Setting Auto, Day, Night, Timer Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, WDR Privacy Masking 4 areas  Event  Alarm Triggers IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection Event Actions Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output Network  Protocols IPV4/IPV6, HTTP/HTTPS, DNs, DDNS, DHCP, PPP0E, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPPP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802. 1x, SMMP, Multicast Interoperability ONVIF (Profile S/Tr(G/M), SDK, CGI  Max Concurrent Streams 10. Years and The Streams 10. Years a live is administrator, Operator, Media user Security IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Video and Audio	
Stream/Frame Rate Stream2: VGA, CJF, QVFA @ 25/30fps Stream3: VGA, CJF, QVFA @ 25/30fps Bit Rate Control CBR/VBR Stream2: 200 Kbps to 12 Mbps Stream3: 200 Kbps to 12 Mbps Stream3: 200 Kbps to 12 Mbps Stream3: 200 Kbps to 13 Mbps Stream3: 200 Kbps to 13 Mbps Stream3: 200 Kbps to 14 Mbps Stream3: 200 Kbps t	Streaming Capability	3 Streams
Stream1: 200 Kbps to 1 Mbps Stream2: 100 kbps to 6 Mbps Stream2: 100 kbps Stream2: 100 k	Stream/Frame Rate	Stream2: D1, VGA, CIF @ 25/30fps
Stream2: 100 kbps to 5 Mbps Stream3: 100 kbps to 3 Mbps Smart Encoder Support Region of Interest (ROI) Off/On (8 Zone, Rectangle) Audio Compression G.711 A-law, G.711 µ-law, RAM PCM Audio Bit Rate 64 kbps (G.711), 128 kbps (RAW_PCM) Intege Image Adjustment Brightness, Sharpness, Contrast, Saturation adjustable Scene Mode Indoor, Outdoor, Mirror, Corridor mode Exposure Mode Auto, Manual, Shutter priority White Balance Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual Day/Night Setting Auto, Day, Night, Timer Noise Reduction 20/30 DNR Image Enhancement HLC, BLC, Defog, WDR Privacy Masking 4 areas  Fvent Alarm Triggers IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection Event Actions Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output Network  Protocols Interoperability ONVIF (Profile S/T/G/M), SDK, CGI Max Concurrent Streams 10 channels User/Host Level 32+ users, 3 levels: Administrator, Operator, Media user Security Interoperability Interoperab	Bit Rate Control	CBR/VBR
Region of Interest (ROI)  Off/On (8 Zone, Rectangle)  Audio Compression  G.711 A-law, G.711 µ-law, RAM PCM  Audio Bit Rate  64 Kbps (G.711), 128 Kbps (RAW_PCM)  Image  Image Adjustment  Brightness, Sharpness, Contrast, Saturation adjustable  Scene Mode  Indoor, Outdoor, Mirror, Corridor mode  Exposure Mode  Auto, Manual, Shutter priority  White Balance  Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual  Day/Night Setting  Auto, Day, Night, Timer  Noise Reduction  2D/3D DNR  Image Enhancement  HLC, BLC, Defog, WDR  Privacy Masking  4 areas  Event  Alarm Triggers  IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection  Event Actions  Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols  IPP4/IPP6, HTTP/HTTPS, DNS, DDNS, DHCP, PPP6E, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast  User/Host Level  32+ users, 3 levels: Administrator, Operator, Media user  Security  In address filter, HTTPS, Illegal login lock, IEEE 802.1x	Bit Rate	Stream2: 100 Kbps to 6 Mbps
Audio Compression G.711 A-law, G.711 µ-law, RAM PCM Audio Bit Rate 64 Kbps (G.711), 128 Kbps (RAW_PCM)  Image  Image Adjustment Brightness, Sharpness, Contrast, Saturation adjustable Scene Mode Indoor, Outdoor, Mirror, Corridor mode  Exposure Mode Auto, Manual, Shutter priority White Balance Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual Day/Night Setting Auto, Day, Night, Timer Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, WDR  Privacy Masking 4 areas  Event  Alarm Triggers IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection Event Actions Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols IPV4/IPV6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPPP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast Interoperability ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams 10 channels User/Host Level 32+ users, 3 levels: Administrator, Operator, Media user Security IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Smart Encoder	Support
Image  Image Adjustment Brightness, Sharpness, Contrast, Saturation adjustable  Scene Mode Indoor, Outdoor, Mirror, Corridor mode  Exposure Mode Auto, Manual, Shutter priority  White Balance Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual  Day/Night Setting Auto, Day, Night, Timer  Noise Reduction 2D/3D DNR  Image Enhancement HLC, BLC, Defog, WDR  Privacy Masking 4 areas  Event  Alarm Triggers IVS, Modion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection  Event Actions Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols IPV4/IPV6, HTTP/HTTPS, DNS, DDNS, DHCP, PPP0E, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast  Interoperability ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams 10 channels  User/Host Level 32+ users, 3 levels: Administrator, Operator, Media user  Security IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Region of Interest (ROI)	Off/On (8 Zone, Rectangle)
Image Adjustment Brightness, Sharpness, Contrast, Saturation adjustable Scene Mode Indoor, Outdoor, Mirror, Corridor mode Exposure Mode Auto, Manual, Shutter priority White Balance Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual Day/Night Setting Auto, Day, Night, Timer Noise Reduction 2D/3D DNR Image Enhancement HLC, BLC, Defog, WDR Privacy Masking 4 areas  Event  Alarm Triggers IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection Event Actions Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast Interoperability ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams 10 channels User/Host Level 32+ users, 3 levels: Administrator, Operator, Media user  Fecurity In address filter, HTTPS, Illegal login lock, IEEE 802.1x	Audio Compression	G.711 A-law, G.711 μ-law, RAM PCM
Image Adjustment  Brightness, Sharpness, Contrast, Saturation adjustable  Scene Mode  Indoor, Outdoor, Mirror, Corridor mode  Exposure Mode  Auto, Manual, Shutter priority  White Balance  Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual  Day/Night Setting  Auto, Day, Night, Timer  Noise Reduction  2D/3D DNR  Image Enhancement  HLC, BLC, Defog, WDR  Privacy Masking  4 areas  Event  Alarm Triggers  IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection  Event Actions  Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols  IPV4/IPV6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast  Interoperability  ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams  10 channels  User/Host Level  32+ users, 3 levels: Administrator, Operator, Media user  Feurity  IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
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Exposure Mode Auto, Manual, Shutter priority  White Balance Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual  Day/Night Setting Auto, Day, Night, Timer  Noise Reduction 2D/3D DNR  Image Enhancement HLC, BLC, Defog, WDR  Privacy Masking 4 areas  Event  Alarm Triggers IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection  Event Actions Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols IPP4/IPV6, HTTP/HTTPS, DNS, DDNS, DHCP, PPP6E, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPPP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast Interoperability ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams 10 channels  User/Host Level 32+ users, 3 levels: Administrator, Operator, Media user  Security IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
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Image Enhancement HLC, BLC, Defog, WDR  Privacy Masking 4 areas  Event  Alarm Triggers IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection  Event Actions Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast  Interoperability ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams 10 channels  User/Host Level 32+ users, 3 levels: Administrator, Operator, Media user  Security IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Day/Night Setting	Auto, Day, Night, Timer
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Alarm Triggers  IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection  Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  Protocols  IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast Interoperability  ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams  10 channels  User/Host Level  32+ users, 3 levels: Administrator, Operator, Media user  Security  IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Privacy Masking	4 areas
Security  Alarm Inggers  sound detection  Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output  Network  IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast  Interoperability  ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams  10 channels  User/Host Level  32+ users, 3 levels: Administrator, Operator, Media user  Security  IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Event	
Protocols  IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast  Interoperability  ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams  10 channels  User/Host Level  32+ users, 3 levels: Administrator, Operator, Media user  Security  IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Alarm Triggers	
Protocols  IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast  ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams  10 channels  User/Host Level  32+ users, 3 levels: Administrator, Operator, Media user  Security  IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Event Actions	Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output
Interoperability  ONVIF (Profile S/T/G/M), SDK, CGI  Max Concurrent Streams  10 channels  User/Host Level  32+ users, 3 levels: Administrator, Operator, Media user  IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Network	
Max Concurrent Streams  10 channels  User/Host Level  32+ users, 3 levels: Administrator, Operator, Media user  Security  IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Protocols	
User/Host Level 32+ users, 3 levels: Administrator, Operator, Media user  Security IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI
Security IP address filter, HTTPS, Illegal login lock, IEEE 802.1x	Max Concurrent Streams	10 channels
	User/Host Level	32+ users, 3 levels: Administrator, Operator, Media user
Web Viewer <ie11, chrome,="" edge<="" firefox,="" microsoft="" td=""><td>Security</td><td>IP address filter, HTTPS, Illegal login lock, IEEE 802.1x</td></ie11,>	Security	IP address filter, HTTPS, Illegal login lock, IEEE 802.1x
	Web Viewer	<ie11, chrome,="" edge<="" firefox,="" microsoft="" td=""></ie11,>

Interface		
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector	
Built-in Microphone	Support	
Built-in Speaker	Support	
Audio Interface	1ch Input, 1ch Output	
Alarm Interface	1ch Input, 1ch Output	
SD Card Slot	Built-in, up to 256 GB	
Reset Button	Support	
General		
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English	
Power Supply	12 VDC (-15% to +25%) / PoE (802.3af)	
Power Consumption	Max 9.5 W	
Operating Temperature	-40°C to 55°C (-40°F to 131°F)	
Operating Humidity	Less than 90% RH	
Ingress Protection	IP66	
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B	
Material	Aluminum alloy + plastic	
Dimensions	242.6 × 87.7 × 97.2 mm (9.55 × 3.45 × 3.83 inch)	
Net Weight	0.85 kg (1.87 lb)	

### **Dimensions (mm)**



### **Accessories**

### **Optional:**



SN-CBK656A Junction Box



SN-CBK627D Pole Mount