

# SN-IPD8020EPAR-B

2MP Cable Free Indoor Mini Dome Network Camera



## Key Features

- 1/2.8" STARVIS™ CMOS
- Max. 2MP(1920×1080) @25/30fps resolution
- 2.1 mm / 2.8 mm fixed lens optional
- Supports face, human, and vehicle detection & capture.
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Smart IR distance up to 15 m
- Built-in microphone, 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot
- Internal termination

## Specifications

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max Resolution	2MP, 1920(H) × 1080(V)
Shutter Speed	1/5 to 1/20,000s
Min Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with IR on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: ±45°, Tilt: 0° to 72°, Rotation: 0° to 360°
Lens	
Lens Type	Fixed lens, Fixed focal
Focal Length	2.1 mm, 2.8 mm optional
Max. Aperture	F1.8 / F2.0
Field of View (FOV)	2.1 mm: - H: 131°, V: 74.3° 2.8 mm: - H: 101.5°, V: 50.5°
Iris	Fixed Iris
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 15 m (49.2 ft)
Control	Auto/Manual
Intelligent Analytics	
AI Multi-Target	- Supports face, human, and vehicle detection & capture. - Supports multiple frame modes: Full Frame, Four-Corner Frame, Mosaic.
Intelligent Analysis	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection. - Supports accurate target classification (human/vehicle)
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 1920×1080, 1280×720 Stream2: D1, VGA, 640×360, CIF, QVGA Stream3: VGA, CIF, QVGA
Frame Rate	Up to 25/30fps

Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 Kbps to 12 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Off/On (8 Zone, Rectangle)
Audio Compression	G.711 A-law, G.711 $\mu$ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
<b>Image</b>	
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
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	4 areas
<b>Event</b>	
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, Snapshot, Audible alarm output
<b>Network</b>	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, 802.1x, SNMP, Multicast
Application Programming Interface	ONVIF (Profile S/T/G/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 levels: Administrator, Operator, Media user
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
<b>Security</b>	
OS / Firmware Protect	Encrypted firmware, Signed firmware
User Authentication	Digest authentication, Prevent brute-force attack
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access / System / Event Log management

Secure Storage	SDcard partition encrypt (AES-256), Secure element
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Supply Chain Security	SBOM
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### Interface

Network Interface	1 × Ethernet (10/100 Base-T), RJ-45 connector
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Built-in Microphone	Supported
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Audio Interface	1ch Input, 1ch Output
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Alarm Interface	1ch Input, 1ch Output
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SD Card Slot	Built-in microSD card slot, up to 256GB
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Reset Button	Supported
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### General

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
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Power Supply	12 VDC (-10% to +25%)/PoE (802.3af)
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Power Consumption	Max 5 W
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Operating Temperature	-40°C to 55°C (-40°F to 131°F )
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Operating Humidity	Less than 90% RH
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Ingress Protection	N/A
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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
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Material	Base: aluminum, cover: plastic, bubble: plastic
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Dimensions	99.6 × 99.6 × 62.5 mm (3.92 × 3.92 × 2.46 inch)
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Net Weight	Approx. 0.38 kg (0.84 lb)
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### DORI Distance (EN62676-4 standard)

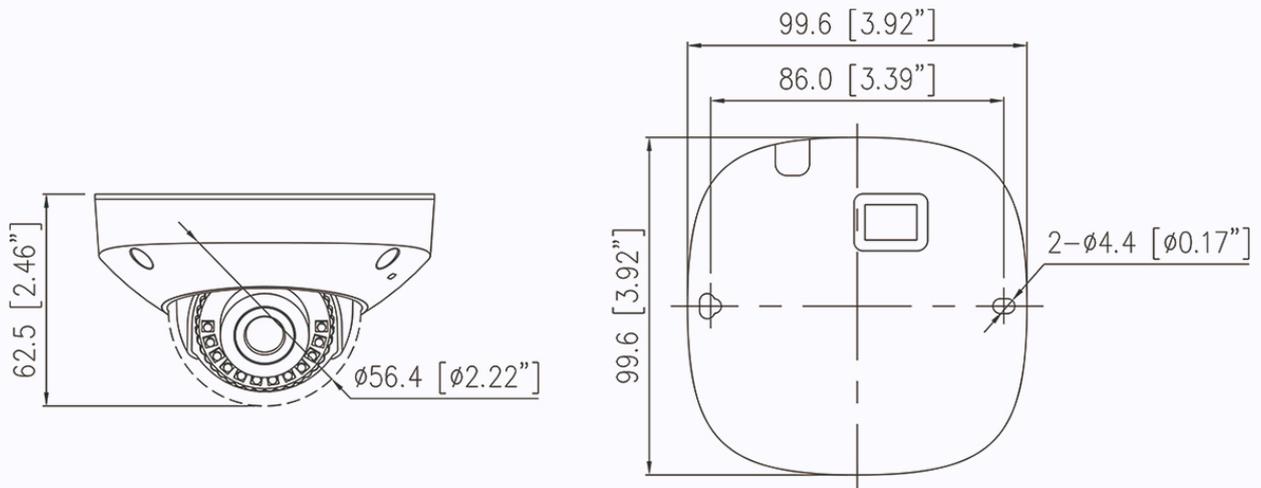
Detect	2.1 mm: 33 m (108.3 ft) 2.8 mm: 44 m (144.4 ft)
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Observe	2.1 mm: 13.2 m (43.3 ft) 2.8 mm: 17.6 m (57.7 ft)
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Recognize	2.1 mm: 6.6 m (21.7 ft) 2.8 mm: 8.8 m (28.9 ft)
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Identify	2.1 mm: 3.3 m (10.8 ft) 2.8 mm: 4.4 m (14.4 ft)
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## Dimensions (mm)



## Accessories

### Optional:



SN-CBK647  
Junction Box



SN-BK382A  
Wall Mount



SN-CBK204  
Pendant Cap



SN-CBK402  
Ceiling Mount



SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount