

SN-PMD2020DN-Z25

2MP 25x Network Camera Module



Key Features

- 1/2.8" STARVIS™ CMOS
- Max. 2MP (1920×1080) @25/30fps resolution, 25x optical zoom, 16x digital zoom
- Supports face, human, and vehicle detection & capture.
- Supports human and vehicle attribute detection.
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection, smoke and flame detection, and people counting.
- True WDR (120dB), 3D DNR, ICR, Defog and DIS
- Support ONVIF, access third party

Specifications

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max Resolution	1920(H) × 1080(V)
Shutter Speed	1/5 to 1/20,000s
Min Illumination	Color: 0.03 Lux @ (F1.6, AGC ON), B/W: 0.003 Lux @ (F1.6, AGC ON)
Day & Night	Auto (ICR)
S/N Ratio	55 dB
Lens	
Focal Length	5 to 125 mm
Max. Aperture	F1.6 to F3.67
Field of View (FOV)	H: 58.0° to 3.5°, V: 33.5° to 1.9°
Optical Zoom	25x
Digital Zoom	16x
Iris	Auto/Manual
Focus Control	Auto/Manual/Semi-automatic
Intelligent Analytics	
Multi-Object Detection	- Supports face, human, and vehicle detection & capture; - Supports human and vehicle attribute detection; - Supports multiple frame modes: Full Frame, Four-Corner Frame, Mosaic.
Attribute Extraction	Human Attributes: Gender, age, glasses, hat, bag, upper clothing color & style, lower clothing color & style, reflective vest. Vehicle Attributes: Type, color, brand, orientation
Intelligent Analysis	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection. - Supports accurate target classification (human/vehicle)
Smoke and Flame Detection	Supported
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 1920×1080, 1280×720 Stream2: D1, VGA, CIF 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)	Supported
Audio Compression	G.711 A-law, G.711 μ -law, RAW_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
Exposure Mode	Auto, Manual, Shutter priority, Iris 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, Anti-shake
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	Up to 8 zones, mask color configurable
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, Snapshot, 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
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
Security	
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

Supply Chain Security	SBOM
Interface	
Network Interface	1 × Ethernet (10/100 Base-T), RJ-45 connector
Audio Interface	1ch input, 1ch output
Alarm Interface	1ch input, 1ch output
RS-485	Supported
CVBS Output	Supported
SD Card Slot	Built-in microSD card slot, up to 1 TB
Reset Button	Supported
General	
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC ± 20%
Power Consumption	Static: 2.5 W, Dynamic: 7 W
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	Less than 90% RH (no condensation)
Ingress Protection	N/A
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	Metal
Dimensions	110.8 × 48.1 × 55.7 mm (4.36 × 1.89 × 2.19 inch)
Net Weight	Approx. 0.26 kg (0.57 lb)
DORI Distance (EN62676-4 standard)	
Detect	74 to 1,850 m (242.78 to 6,069.55 ft)
Observe	29.6 to 740 m (97.11 to 2,427.82 ft)
Recognize	14.8 to 370 m (48.56 to 1,213.91 ft)
Identify	7.4 to 185 m (25.6 to 606.96 ft)

Dimensions (mm)

Unit: mm

