



SN-PMD2041DN-Z37

4MP 37x Starlight Network Camera Module



Key Features

- 1/1.8" STARVIS™ CMOS
- Max. 4MP(2592×1520) @25/30fps resolution
- 37x optical zoom, focal length 6.8 to 251 mm
- Support face, human, vehicle detection and capture
- Support smoke and flame detection
- Intelligent analytics: intrusion, single line crossing, double line crossing, loitering, wrong-way detection, illegal parking, smart motion detection, and people counting
- True WDR, 3D DNR, ROI, HLC, BLC, Defog and EIS
- 1/1 audio input/output, 1/1 alarm input/output
- Support ONVIF, access third party



Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2592(H) × 1520 (V)
Signal System	PAL/NSTC
Electronic Shutter	Auto/Manual, 1/5 to 1/20,000s
Min. illumination	Color: 0.001 Lux @(F1.5, AGC ON), B/W: 0.0005 Lux @(F1.5, AGC ON)
Day & Night	Auto (ICR)
Wide Dynamic Range	True WDR
Lens	
Focal Length	6.8 to 251 mm, 37x optical zoom
Max. Aperture	F1.5 to F4.8
Field of View (FOV)	H: 60.4° to 2.5°, V: 36.5° to 1.5°
Digital Zoom	16x
Iris Control	Auto/Manual
Focus Control	Auto/Manual/Semi-automatic
DORI Distance	
Detection	95 to 3,515 m (311.68 to 11,532.15 ft)
Observe	38 to 1,406 m (124.67 to 4,612.86 ft)
Recognize	19 to 703 m (62.34 to 2,306.43 ft)
Identify	9.5 to 351.5 m (31.17 to 1,153.22 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.	
Intelligent Analytics	
Multi-Object Detection	Support face, human, vehicle detection and capture Supports multiple frame modes: Full Frame, Four-corner Frame, and Mosaic.
Smoke and Flame Detection	Support
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way detection, Illegal parking, and Smart motion detection (support the accurate detection of vehicle and human)
People Counting	Support
Video and Audio	
Streaming Capability	3 Streams

Stream/Frame Rate	Stream1: 2592×1520, 2304×1296, 1920×1080, 1280×720 @25/30fps Stream2: D1, VGA, CIF @25/30fps Stream3: VGA, CIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 kbps to 16 Mbps Stream2: 100 kbps to 6 Mbps Stream3: 100 kbps to 3 Mbps
Smart Encoder	Support
Region of Interest (ROI)	Support
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, Anti-shake
Privacy Masking	Support 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, 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
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
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	Support
CVBS Output	Support
SD Card Slot	Built-in, up to 1 TB
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 $\pm$ 20%
Power Consumption	Max 8W
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	Less than 90% RH
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	140.8 × 56.8 × 66.4 mm (5.54 × 2.24 × 2.61 inch)

Technical drawing of the camera housing showing front, top, and side views with dimensions in mm and inches.

Front View Dimensions:

- Overall Width: 140.8 [5.54"]
- Overall Height: 44.0 [1.73"]
- Top Flange Width: 11.9 [0.47"]
- Top Flange Height: 16.0 [0.63"]
- Bottom Flange Width: 10.1 [0.40"]
- Bottom Flange Height: 18.9 [0.74"]
- Internal Width: 126.0 [4.96"]
- Internal Height: 10.0 [0.39"]

Top View Dimensions:

- Overall Width: 56.8 [2.24"]
- Overall Height: 66.4 [2.61"]
- Top Flange Width: 28.8 [1.13"]
- Top Flange Height: 36.1 [1.42"]

Side View Dimensions:

- Overall Width: 16.0 [0.63"]
- Overall Height: 44.0 [1.73"]
- Top Flange Width: 10.0 [0.39"]
- Top Flange Height: 19.0 [0.75"]
- Internal Width: 10.0 [0.39"]

Remarks: The left and right side screws can penetrate into the structure 3.5mm (including wall thickness). Therefore, when fixing the camera through the side, it is necessary to select the appropriate screw length to prevent the screw from reaching the internal components.

Callouts:

- 1/4-20UNC-2A
- 16-M2x3.5

Remarks: The left and right side screws can penetrate into the structure 3.5mm (including wall thickness). Therefore, when fixing the camera through the side, it is necessary to select the appropriate screw length to prevent the screw from reaching the internal components.