

iDS-2ZMN2509N(E) iDS-2ZMN2509N(E)



Hikvision iDS-2ZMN2509N(E) 4 MP 25 × Network Zoom Camera Module adopts 1/2.8" progressive scan CMOS chip. With the 25 × optical zoom lens, the camera module offers more details over expansive areas.

This series of camera modules can be used for different types of PTZ cameras and positioning systems.

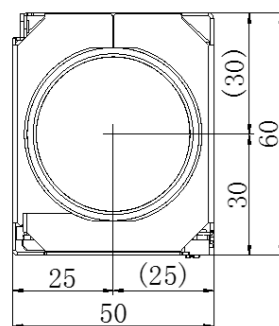
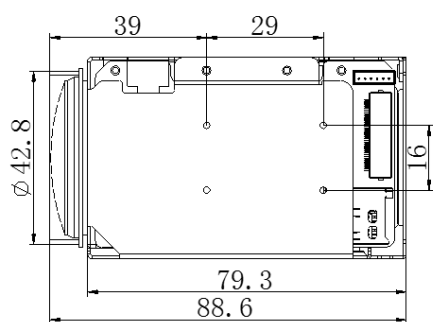
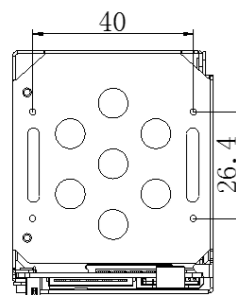
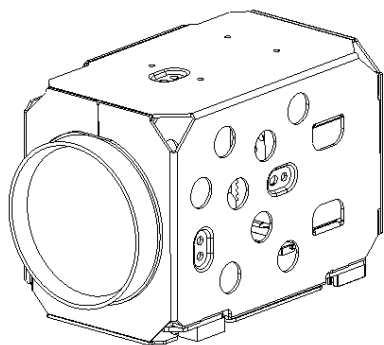
- 1/2.8" progressive scan CMOS
- Up to 2560 × 1440 resolution
- 25 × optical zoom, focal length 4.8 mm to 120 mm
- Min. illumination: Color: 0.05 Lux @ (F1.6, AGC ON)
- IR cut filter with auto switch
- Smart events: intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection
- Face capture
- Quick and accurate focus
- 120 dB WDR, 3D DNR
- Efficient H.265 compression technology
- Multiple interfaces for extended functionality
- Network output
- Small size and low power consumption
- Easy to connect to PTZ cameras and positioning systems
- Seamless access to mainstream platforms and other network devices
- Support road monitoring and license plate capture

▪ Specification

Camera Module	
Image Sensor	1/2.8" progressive scan CMOS
Min. Illumination	Color: 0.05 Lux @ (F1.6, AGC ON) Black and White: 0.01 lux @ (F1.6 , AGC ON)
Resolution and Frame Rate	Main Stream 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720); 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) Sub-Stream 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288); 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) Third Stream 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288); 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264/MJPEG
White Balance	MWB, Auto(wide), Auto(narrow), Locked WB, fluorescent lamp, incandescent lamp, warm light lamp, natural light
Gain Control	Auto/Manual
SNR	>52 dB
3D DNR	yes
BLC	yes
Regional Focus	yes
Shutter	1/1 s to 1/30,000 s
Day & Night	Auto/Color/BW/Triggered by Alarm Input/Scheduled-Switch
Privacy Mask	8 masks for each scene, up to 24
Audio Compression	G.722.1, G.711-a law, G.711-u law, MP2L2, G.726, AAC, PCM, MP3
Digital Zoom	16 ×
Focus	auto, semi-auto, manual
Regional Exposure	yes
Day/Night Switch	ICR
Video Bit Rate	32 kbps to 16384 kbps
Heartbeat	yes
Exposure Mode	auto, iris priority, shutter priority, manual
ROI	Up to 8 for each stream
Lens	
Focal Length	4.8 mm to 120 mm, 25 × optical
Zoom Speed	Approx. 3.6 s (Optical, Wide-Tele)
FOV	Horizontal: 55° to 2.4° (Wide to Tele) Vertical: 33° to 1.4° (Wide to Tele) Diagonal: 61.5° to 2.8° (Wide to Tele)
Aperture	F1.6 to F3.5
Function	
Image Enhancement	120 dB WDR, HLC, BLC
Smart Encoding	smart264, smart265

Exception Detection	Disk full, disk error, network disconnected, IP address conflict, unauthorized login.
Power-off Memory	yes
Smart Detection	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, loitering detection, people gathering detection, fast moving detection, parking detection, unattended baggage detection, object removal detection, audio exception detection, motion detection, and video tampering detection
Face Capture	yes
Road Traffic	yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, QoS, IPv4, IPv6, UDP, SSL/TLS, WebSocket, WebSockets, 802.1x
API	Open-ended API, ONVIF, PSIA, CGI, Hikvision SDK, Third-party management platform, ISUP, Hik-Connect
Web Browser	Chrome80+, Firefox80+, Safari13+, Edge89
Simultaneous Live View	Up to 20 channels
User	Up to 32 users. 3 levels: Administrator, Operator and User
Security Measures	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access
Interface	
Communication Interface	10 M/100 M Ethernet interface
Audio I/O	1 audio input, 1 audio output
Alarm I/O	1 alarm input, 1 alarm output
Video Output	no
SDI Output	no
RS-485	yes
On-board Storage	Micro SD/Micro SDHC/Micro SDXC card, up to 512 GB
Interface	36pin FFC (including network interface, RS485, RS232, SDHC, alarm in/out, line in/out, power supply)
Communication	RS232 interface (VISCA protocol, Pelco-D protocol, Pelco-P protocol, HIKVISION protocol), RS485 interface (Pelco-D protocol, Pelco-P protocol, HIKVISION protocol).
General	
Power	DC12V±10%
Power Consumption	Max. 10 W
Operating Conditions	Temperature: -10 °C to 60 °C (14°F to 140°F) Humidity: ≤90%
Dimensions	50 mm × 60 mm × 88.6 mm (1.97" × 2.36" × 3.49")
Weight	Approx. 266 g (0.59 lb.)

▪ Dimension



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