iDS-2ZMN2312S(B)
8 MP 23 × Network Zoom Camera Module

Hikvision iDS-2ZMN2312S(B) 8 MP 23 × Network Zoom Camera Module adopts 1/1.8" progressive scan CMOS chip. With the 23 × 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.

- 1/1.8" progressive scan CMOS
- Up to 3840 × 2160 resolution
- 23 × optical zoom, focal length 5.9 mm to 135.7 mm
- Min. illumination: Color: 0.005 Lux @ (F1.5, AGC ON)
- IR cut filter with auto switch
- EIS, 120 dB WDR, 3D DNR
- 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
- 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

▪ Specification

Camera Module	
Heartbeat	yes
Image Sensor	1/1.8" progressive scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.5, AGC ON); B/W: 0.0005 Lux @(F1.5, AGC ON)
Resolution and Frame Rate	Main Stream 50 Hz: 25 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 24 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) Sub-Stream 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 24 fps (704 × 480, 640 × 480, 352 × 240) Third Stream 50 Hz: 25 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 24 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.264/H.265
Audio Compression	G.722.1, G.711alaw, G.711ulaw, MP2L2, G.726, PCM
White Balance	auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB, Locked WB
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
Digital Zoom	12 ×
Focus	auto, semi-auto, manual
Privacy Mask	up to 8 masks
Regional Exposure	yes
Video Bit Rate	32 kbps to 16384 kbps
Exposure Mode	auto, iris priority, shutter priority, manual
Day/Night Switch	ICR
Lens	
Focal Length	5.9 mm to 135.7 mm, 23 × optical
Zoom Speed	Approx. 4.8 s (Optical, Wide-Tele)
Horizontal FOV	60.2° to 3.4° (Wide-Tele)
Aperture	F1.5 to F3.4
Function	
Image Enhancement	120 dB WDR, HLC, BLC, electronic defog, EIS with built-in gyroscope
Smart Encoding	low bit rate, ROI
Exception Detection	illegal login
Power-off Memory	yes
Smart Detection	intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection

Face Capture	yes
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, Bonjour
API	Open-ended API, ONVIF, PSIA, CGI, Hikvision SDK, Third-party management platform, ISUP, Hik-Connect
Web Browser	IE 10-11, Chrome 57+, Firefox 52+, Safari 12+
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	
Power Interface	12 VDC ± 10%
Communication Interface	10 M/100 M Ethernet interface
Communication	RS232 interface, HIKVISION protocol, RS485 interface, Pelco protocol
Audio I/O	1 audio input, 1 audio output
Alarm I/O	1 alarm input, 1 alarm output
RS-485	yes
On-board Storage	Micro SD/Micro SDHC/Micro SDXC card, up to 256 GB
Interface	36pin FFC (including network interface, RS485, RS232, alarm in/out, line in/out, power supply)
General	
Power Consumption	Static: 5 W, Dynamic: 7 W
Operating Conditions	Temperature: -10 °C to 60 °C (14°F to 140°F) Humidity: ≤90%
Dimensions	57 mm × 67 mm × 119 mm (2.24" × 2.64" × 4.69")
Weight	Approx. 420 g (0.93 lb.)

▪ Available Model

iDS-2ZMN2312S(B)

Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.
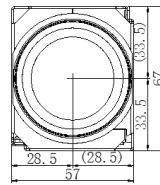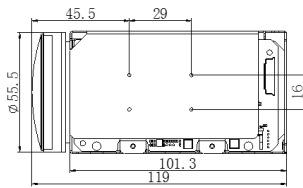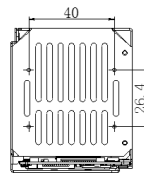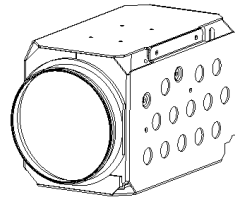
This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.

No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

▪ **Dimension**

Unit:mm

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