



PRO 9051IP-4MPX-2812-IVS

Professional 4MP Bullet Camera with IP67
+ IK10 Rating and Video Analytics

Siera manufactures reliable and affordable solutions in Electronic Security, CCTV, Access Control, Intercommunication and Professional Audio.

Featured specifications

- 1/1.8" Progressive Scan CMOS sensor
- Maximum resolution of 4 MP (2688 × 1520) at 25/30 fps
- Supports face, person, and vehicle detection and capture
- Supports person and vehicle attribute detection
- Intelligent analytics: Intrusion detection; Line crossing; Loitering detection; Wrong-way detection; Illegal parking detection; Perimeter Protection; Smart motion detection; People counting; Human behavior analysis (running, falling, fighting)
- True WDR (140 dB), 3D DNR, ROI, HLC, BLC, Defog
- Built-in infrared LEDs and warm white LEDs with illumination range up to 60 m
- Built-in microphone and speaker, 1 audio input / 1 audio output
1 alarm input / 1 alarm output
Built-in microSD card slot (up to 1 TB)
- IP67 + IK10 protection

CAMERA

Image Sensor	1/1.8" Progressive Scan CMOS
Resolution	4 MP, 2688 (H) × 1520 (V)
Electronic Shutter	1/5 to 1/20,000 s
Minimum Illumination	0.0001 Lux @ (F1.0, AGC ON), 0 Lux with illuminator ON
Day / Night	Automatic (ICR)

LENS

Lens Type	Motorized Varifocal
Iris	Auto Iris
Focal Length	2.8-12 mm
Aperture	F1.0
Field of View (FOV)	H: 111.5° V: 60.4° / H: 37.4° V: 15.5°

ILLUMINATION

Type	Infrared + Warm White Light
IR Wavelength	850 nm
Illumination Distance	Infrared: up to 60 m Warm White Light: up to 60 m
Control	IR Mode, White Light Mode, Smart Mode, Off

ARTIFICIAL INTELLIGENCE

Multi-target AI	Supports face, person and vehicle detection and capture. Supports person and vehicle attribute detection.
Attribute Extraction	Human Attributes: Gender, Age, Glasses, Hat, Bag, Color and style of upper clothing, Color and style of lower clothing, Reflective vest.
Vehicle Attributes	Vehicle type, Color, Brand, Direction
Intelligent Analytics	Intrusion detection; Smart motion detection; Single line crossing; Double line crossing; Loitering detection; Wrong-way detection; Illegal parking detection; People limit in area; Perimeter Protection; Running detection; Fall detection; Fighting detection; Backpack detection; Face mask detection; Bag detection; Heat map; Bicycle detection; Tricycle detection; Motorcycle detection; Support for future analytics development
People Counting	Supported

VIDEO & AUDIO

Number of Streams	4 Streams (H.264 / H.265 / MJPEG)
Resolution	Stream 1: 2688 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720 Stream 2: D1, VGA, CIF Streams 3/4: VGA, CIF, QVGA
Frame Rate	Up to 25/30 fps



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Bit Rate Control	CBR / VBR
Bit Rate	Stream 1: 30 Kbps to 16 Mbps Stream 2: 100 Kbps to 6 Mbps Streams 3/4: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	8 Regions
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 Adjustments	Brightness, Sharpness, Contrast, Saturation
Scene Modes	Indoor, Outdoor, Mirror, Corridor
Exposure Modes	Automatic, Manual, Shutter Priority
White Balance	Automatic, Tungsten, Fluorescent, Daylight, Shadow, Manual
Day/Night Settings	Automatic, Day Mode, Night Mode, Timer
Noise Reduction	2D/3D DR (Spatial/Temporal)
Image Enhancement	WDR, HLC, BLC, Defog
Wide Dynamic Range	Multi-Exposure WDR, 2 Fields (140 dB)
Privacy Mask	4 Areas
EVENTS	
Alarm Triggers	IVS, Motion Detection, Alarm Input, Network Alarm, Storage Alarm, Day/Night Switching Alarm, Abnormal Sound Detection, Scene Change Detection
Event Actions	Alarm Recording, FTP Upload, SMTP Upload, Alarm Snapshot, Audible Alarm Output, White Light Output, 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
Maximum Simultaneous Streams	10 Channels
User / Host Levels	More than 32 users; 3 user levels: Administrator, Operator, Media User
Web Browser Support	IE11, Chrome, Firefox, Microsoft Edge.
SECURITY	
Operating System / Firmware	Encrypted Firmware, Secure Boot, Signed Firmware
User Authentication	Digest Authentication, Brute Force Attack Prevention
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-Based Access Control, Automatic Logout
Data Protection	Encrypted Credentials
Audit	Access Management / System / Event Logs
Secure Element	Secure Storage SD Partition Encryption (AES-256)
Supply Chain Security	SBOM
INTERFACES	
Network Interface	1 x Ethernet (10/100 Base-T), RJ-45 Connector
Microphone	Built-in
Speaker	Built-in
Audio Interface	1 x Audio Input; 1 x Audio Output
Alarm Interface	2 x Alarm Inputs; 2 x Alarm Outputs
Auxiliary Output	12 V / 100 mA
SD Card Slot	Built-in microSD Card Slot, up to 1 TB
Storage	Built-in 32 GB Class 10 TLC NAND microSD Card
Reset Button	Supported
GENERAL	
Languages	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, and Korean. Default language: English
Integration:	RESTful API, ONVIF S/T/G/M Profile, SDK and CGI.
Power Supply	12 VDC (-15% to +25%) / PoE (IEEE 802.3af)
Power Consumption	Typical: 2.2 W (12 VDC); Approx. 2.8 W (PoE) Maximum (IR/Warm Light + Speaker enabled): 9.5 W (12 VDC) Approx. 11.9 W (PoE)

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Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Operating Humidity	Less than 95% RH
Protection	IP67 + IK10 (Waterproof and Dustproof)
Certifications	CE-EMC
	EN 55032; EN IEC 61000-6-4; EN IEC 61000-3-2; EN 61000-3-3;
	EN 55035; EN 50130-4
	FCC 47 CFR Part 15 Subpart B
Material	Aluminum Alloy
Dimensions	188 × 80 × 77 mm (7.40 x 3.15 x 3.03 in)
Net Weight	Approx. 0.59 kg (1.3 lb)
Mounting	Pole Mount Bracket Supported
Warranty	3 Years*