9MP Smart Traffic Camera (AI-powered) ZIP-9M-SFC-AI

Features

H.265 | **Edge storage** | **eMMC** | **Onvif** | **ANPR**

- 9MP industrial camera with wide field of view.
- Built in lens supports motorized zoom to adapt to different scenes and allows for easy installation.
- Excellent performance in low light environments.
- Ample space in the housing, easier operation.
- Advanced H.265 encoding technology improves compression efficiency.
- Three streams are available for live view and storage to meet different bandwidth and frame rate requirements.
- Supports speeding detection.
- Vehicle feature recognition: license plate, vehicle color, vehicle type, logo, model, etc. .

Specifications

Model	ZIP-9M-SFC-AI
Camera	
Sensor	1.1" 9MP Global Shutter CMOS
Max. Resolution	4096 × 2160
Min. Illumination	0.001 Lux
Shutter Time	50 us to 20000 us
Day/Night	24/7 color imaging
Lens	
Lens Type	Motorized varifocal lens, 16-40 mm (built-in)
Max. Aperture	F1.5
Iris Type	P-iris

Field of View(H)	50.1° to 21.2°
Field of View (V)	34.4° to 14.7°
Field of View (D)	60.3° to 25.3°
Focus	Motorized
Zoom	Motorized
Illuminato	
Built-in Illuminator Type	Warm light
Light Beads	3
Built-in Illumination Range	Up to 30 m
External Illuminator	Strobe and flash light
Video	
Video Compression	H.265, H.264, MJPEG
Video Resolution	Main stream: 4096×2160, 1920×1080, 1600×1200, 1280×720 Sub stream: 1920×1080, 1280×720, 720×576, 704×288, 352×288Third stream: 720×576, 704×288, 352×288
Video Frame Rate	4096×2160@50 fps 3840×2336@50 fps
Video Bit Rate	128-16384 Kbps
Video OSD	Up to 8 OSDs
ROI	Up to 8 ROIs
Image	
Composite Image	Supports merging up to 4 violation images into a single composite image
Image Resolution	4096 × 2160
Image Encoding Format	JPEG
Image Settings	Shutter, gain, white balance
Digital Noise Reduction	2DNR/3DNR
Image OSD	Supports various overlays with adjustable overlay position, overlay order, font size, font style, font color, etc.
Intelligent	
ANPR Violation Detection	Detects wrong-way driving, speeding, underspeeding, lane violations, solid line crossing, sign violations, and speed measurement via video
E-Police Violation Detection	Detects red-light running, illegal turns, lane violations, stop-line crossing, not yielding to pedestrians, and unauthorized U-turns
Pedestrian Violation Detection	Detects vehicles not yielding to pedestrians
Non-motor Vehicle Violations	Detects violations by bicycles and scooters: riding on highways, wrong-way driving, no helmet
Traffic Flow Recognition	Generates statistics: vehicle count, queue length, average speed, and road load; exportable to Excel
Traffic Violation Recognition	Detects illegal parking, wrong-way driving, and congestion conditions
Video Metadata - Motor Vehicles	Includes license plate, vehicle type, color, plate color, and brand logo

Video Metadata - Non-motor Vehicles	Includes vehicle type (2-wheel/3-wheel), passenger presence, helmet status, and color
Storage	
Edge Storage	8GB eMMC, supports expansion to 256 GB micro SD (TF) card
Automatic Network Replenishment (ANR)	Support
Network	
Protocols	SSH; RTP; RTCP; IPv4; ARP; TCP; UDP; DHCP; RTSP; RTMP; DNS; DDNS; NTP; FTP; UPnP; HTTP; HTTPS; 802.1x; SNMP; LAPI
Compatible Integration	ONVIF; SDK
User/Host	Up to 32 users; 3 user levels: administrator, common user, and operator
Web Browser	IE 10 or higher, Chrome 45.0 or higher, FireFox 52.0 or higher, Edge 79 or higher
Interface	
I/O control	4 × synchronous signal output interface (switch) 4 × synchronous signal output interface (TTL) or 4 × signal input interface (switch)1 × standard relay interface 3 × RS485, 1 × RS232
Network	2 × RJ45 10M/100M/1000M Base T adaptive Ethernet interface
USB	1 USB 3.0 interface
Reset Button	Support
General	
Power Supply	100-240 V AC (50 Hz/60 Hz)
Power Consumption	≤ 16 W
Dimensions	211.7mm (W) ×137.2mm (H)×575mm (D)
Weight	Approx. 5.67 kg
Operating Environment	- 40°C to 70°C, 10% to 90% RH (non-condensing)
Lightning and Surge Protection	Support, ≤ 6KV
Ingress Protection	IP65
Material	Aluminum alloy
Heater	N/A
Fan	Support

Dimensions