

GaoShan Trinocular Sensing Camera

SV-PR-M3A-EX

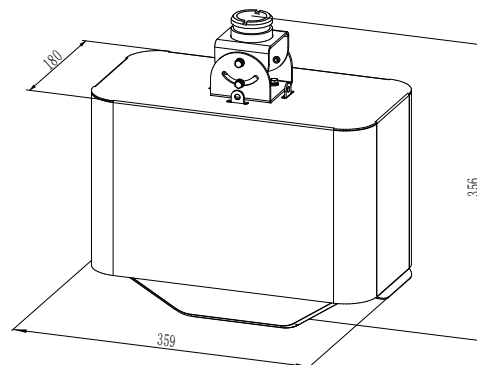
Making Cities Better

Product Overview

The product is a new-generation 8MP ultra-high-definition intelligent perception hardware developed based on deep learning AI video image recognition technology, dedicated to urban roadside smart parking scenarios. Equipped with full road environment perception, cross-camera tracking and long-span continuous parking space management technologies, it provides a full-scene, long-span, high-intelligence, high-accuracy and low-latency intelligent perception hardware solution for urban roadside parking. Meanwhile, it can be applied to urban governance, traffic order management, smart security and other scenarios.

The product equipped with two 8-megapixel fixed-focus cameras featuring large image sensors and one 8-megapixel wide-angle camera. It enables 24/7 real-time management of six linear parking spaces under the device. Additionally, it supports the enforcement of traffic violations involving motor and non-motor vehicles, including illegal parking, wrong-way driving, restricted traffic violations, and identification of unlicensed electric vehicles.

Product Appearance



BLUE ROBOT AI

Address: RM1903, 19/F LEE GARDEN ONE, 33 HYSAN AVENUE, CAUSEWAY BAY, HK

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Functional Features

- Supports 24/7 real-time management of six linear parking spaces under the device.
- Total 24MP pixels, built-in three 8MP cameras with 1/1.8-inch starlight low-light CMOS image sensor, delivering excellent low-light performance, long depth of field and high definition for diverse environments
- Single camera supports dual-stream output simultaneously
- Integrated sensor module for remote real-time viewing of internal temperature and humidity data
- Built-in high-performance AI processing unit, real-time capturing vehicle entry and exit events. Automatically records parking time, parking space number, license plate number, plate color, parking snapshot, panoramic image, sequential frame images and license plate image. License plate recognition rate $\geq 99\%$ under sufficient illumination
- Real-time detection of parking space idle/occupied status. System detection accuracy $\geq 99\%$ under clear and fog-free weather with unobstructed and undamaged license plates
- Supports recognition of standard civilian plates (excluding temporary and tractor plates), new energy plates, military plates, armed police plates, fire truck plates, small/large vehicle plates, driving school plates, diplomatic plates, Hong Kong/Macao entry-exit plates and standard motorcycle plates. Supports plate colors including black, white, blue, yellow and green
- Generates alarm for abnormal parking behaviors including cross-space parking, line-straddling parking, diagonal parking and reverse parking
- Supports NTP automatic time synchronization
- Supports remote firmware upgrade and parameter configuration for device software modules
- IP67 ingress protection rating
- Installation height: 6m; mounting type: ceiling mounting

Technical Parametes

Parameter Name	Parameter Value
Image Processing	
Image Sensor	8MP, 1/1.8" Starlight CMOS $\times 3$
Memory	4GB
Flash Memory	32GB (External expansion supported)
Minimum Illumination	Color: 0.001 lx (AGC ON) B/W: 0.0001 lx (AGC ON)
Protocol	ONVIF, GB/T28181
Video Compression Standard	H.264, H.265
Video Bitrate	256Kbps~16Mbps
Video Frame Rate	1~30fps
Shutter Speed	Auto/Manual 1/25~1/1000s
Lens Mount	CS Mount

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Noise Reduction	2D/3D Digital Noise Reduction
Wide Dynamic Range	Digital WDR
Maximum Image Resolution	3840*2160
Video Output	Main Stream: 3840*2160@30fps (Configurable) Sub Stream: 1920*1080@30fps (Configurable)
Function Configuration	Web-based configuration supported: • Image adjustment: brightness, contrast, saturation, hue, sharpness • Exposure: white balance, backlight compensation, image enhancement, day/night mode • Video: encoding, resolution, frame rate, bitrate control, image quality, I-frame interval • Network: network settings, port and protocol configuration • Storage: recording, snapshot, schedule management • System: general settings, output mode, user management, configuration management, upgrade management, automatic maintenance
Intelligent Algorithm	
Recognition Accuracy	License Plate Recognition $\geq 99\%$, Parking Space Detection Accuracy $\geq 99\%$
Intelligent Functions	Roadside Parking Management, Illegal Parking Detection
Monitoring Coverage	6 parking spaces
Abnormal Alarm Types	Reverse parking, line-straddling parking, cross-space parking, non-motor vehicle occupation alarm
Lens Parameters	
Focal Length & Aperture	4.46-11mm, FN 1.47-C 3.12mm FN 1.8
Lens Resolution	8 Megapixel
Focus Adjustment Mode	Motorized Zoom & Focus Adjustment
Basic Parameters	
Power Interface	DC5521
Network Interface	2 × RJ45
Cooling Fan	1 built-in cooling fan
Built-in Switch Specification	100/1000 Mbps adaptive
Built-in Sensors	Temperature sensor, humidity sensor
Input Voltage	DC12V $\pm 5\%$
Power Consumption	11W
Device Weight	6.5 KG
Dimension	359mm × 356mm × 180mm
Operating Temperature	-30°C ~ 70°C
Ingress Protection Level	IP67

Application Scenarios

urban roadside parking
urban governance
traffic order management
Smart security and so on

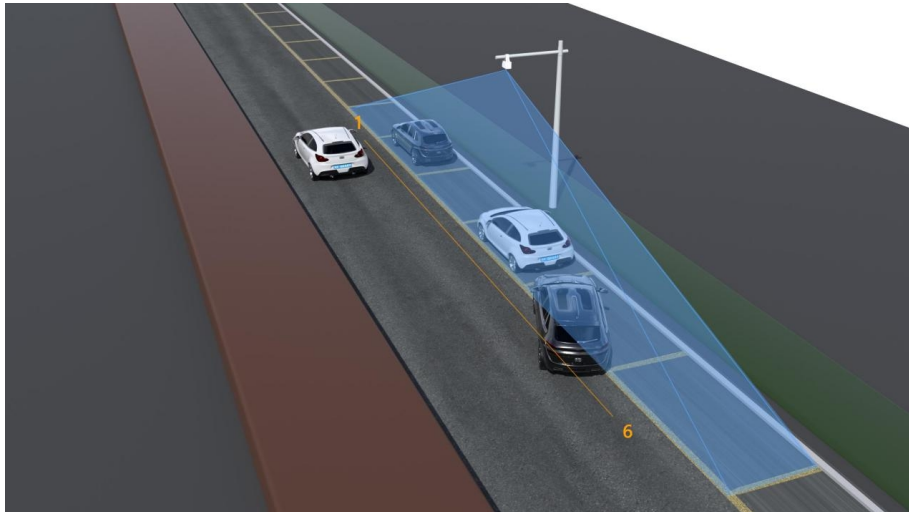
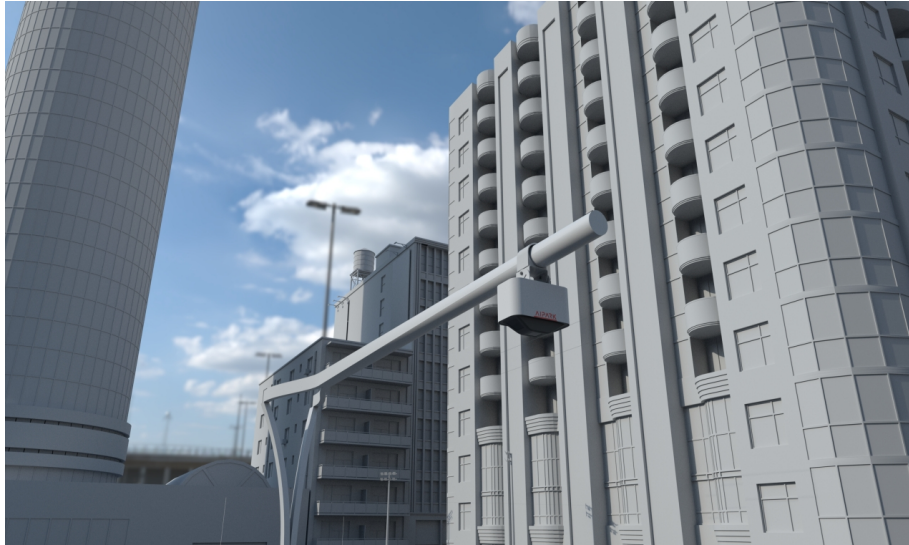
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