

SuperEye Monocular Sensing Camera

SV-PR-E1A-EX

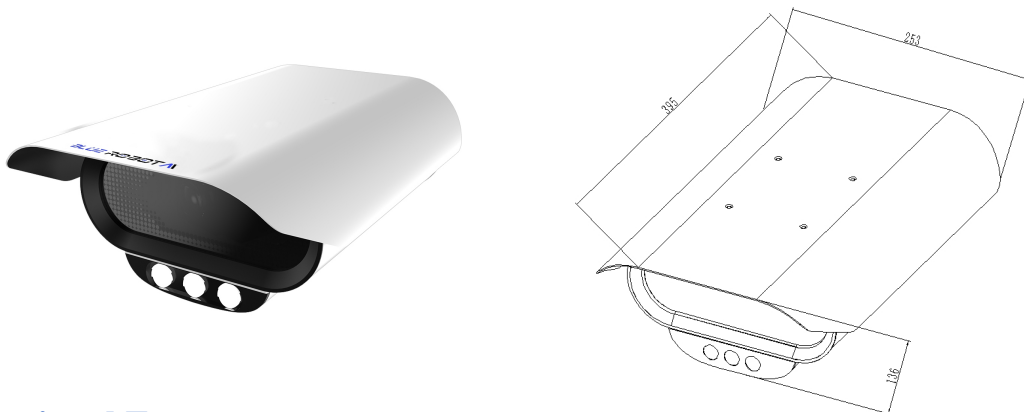
Making Cities Better

Product Overview

The product is a new generation of full 8MP ultra-high-definition intelligent perception hardware product developed for the field of urban on-street smart parking, based on deep learning artificial intelligence video image recognition technology. The product features software and hardware integration, high-performance low-latency edge AI, full road environment perception, large-span continuous parking space management, and dual-mode management of single machine and IoT. It provides full-scenario, large-span, intelligent, high-accuracy, low-latency intelligent perception hardware solutions for urban roadside parking scenarios. The product can also enable application scenarios such as urban governance, traffic order management, and smart security.

The product is equipped with an 8MP motorized adjustable camera, which can realize 24-hour real-time management of up to 5 consecutive inline parking spaces on the roadside, and can empower the management of some illegal behaviors of motor vehicles and non-motor vehicles, such as motor vehicle retrograde driving, restricted driving, shared bicycle recognition, etc.

Product Appearance



Functional Features

BLUE ROBOT AI

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

Email: support@bluerobotai.com

Website: <https://www.bluerobotai.com/>



- C
an manage 5 consecutive inline parking spaces, 24/7 all-weather real-time management
- B
uilt-in one 8MP resolution camera, adopts starlight low-light 1/1.8-inch CMOS image sensor, with good low-light performance, deep depth of field, high clarity, and adaptable to various application environments
- Si
ngle camera can output dual streams simultaneously, or store one stream while outputting another stream with different parameter settings
- In
tegrated intelligent LED fill light, automatically turns on/off based on ambient environment, can cover 30-meter range
- In
tegrated sensor module, remote viewing of internal temperature and humidity data
- Built-in high-performance AI computing unit, real-time collection of vehicle entry and exit information at parking spaces. Automatically detects and records vehicle entry/exit time, parking space number, license plate number, license plate color, parking close-up, panoramic image, process sequence images, and license plate image. Recognition rate $\geq 99\%$ in good lighting; $\geq 97\%$ in poor lighting
- Real-time detection of parking space idle/occupied status. System detection accuracy $\geq 99\%$ under clear and fog-free weather conditions with unobstructed and clean license plates
- Supports recognition of standard civilian license plates (excluding temporary/tractor plates), new energy plates, military plates, armed police plates, fire truck plates, small vehicle plates, large vehicle plates, driving school vehicle plates, embassy vehicle plates, Hong Kong/Macau entry/exit plates, and ordinary motorcycle plates; license plate colors include black, white, blue, yellow, and green
- Can detect abnormal parking behaviors including cross-space parking, line-straddling parking, diagonal parking, and reverse parking
- Supports NTP automatic time synchronization
- Supports remote control upgrade and parameter configuration for device software modules
- IP67 Ingress Protection Rating
- Installation height: 6m. The installation position can be on the same side of the road as the monitored parking spaces, or on the opposite side

Technical Parameters

Parameter Name	Parameter Value
Image Processing	
Image Sensor	8MP, 1/1.8" Starlight CMOS

BLUE ROBOT AI

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

Email: support@bluerobotai.com

Website: <https://www.bluerobotai.com/>



Minimum Illumination	Color: 0.001 lx (AGC ON) B/W: 0.0001 lx (AGC ON)
Protocol	Supports ONVIF, GB/T28181
Video Compression Standard	H.264, H.265 video encoding
Video Bitrate	256Kbps~16Mbps
Video Frame Rate	1~30fps
Shutter Speed	Auto/Manual 1/25~1/1000S
Lens Mount	CS
Day/Night Switch Mode	IR-CUT Supported
Noise Reduction	2D/3D Digital Noise Reduction
Wide Dynamic Range	Digital WDR
Maximum Image Resolution	3840*2160
Image Output	Main Stream: 3840×2160@30fps (configurable) Sub Stream: 1920×1080@30fps (configurable)
Function Settings	Supports web configuration ● Image adjustment (brightness, contrast, saturation, hue, sharpness); ● Exposure (white balance, backlight compensation, image enhancement, day/night mode); ● Video (encoding, resolution, frame rate, bitrate control type, image quality, I-frame interval); ● Image (encoding, resolution, image quality); Network (network settings, port, protocol); ● Storage (recording, snapshot, schedule management); ● System (general settings, output mode, user management, configuration management, upgrade management, auto maintenance), etc.
Intelligent Algorithm	
Recognition Rate	License plate recognition rate $\geq 99\%$, parking space status detection accuracy $\geq 99\%$
Intelligent Recognition Function	Roadside parking management, illegal parking, non-motor vehicle management
Parking Space Management Capacity	5 Consecutive Parking Spaces
Abnormal Alarm Types	Reverse Parking, Line-Straddling Parking, Cross-Space Parking, Non-Motor Vehicle Occupation
Lens Parameters	
Focal Length	Focal length 10-28mm, F/N 1.7-C
Resolution	8 mega pixels
Adjustment	Motorized Adjustment
PTZ Parameters	
Adjustment Range	4-way Adjustment (Up/Down/Left/Right), $-15^{\circ} \sim +15^{\circ}$
Fill Light Parameters	
Light Source	High-Brightness LED Fill Light
LED Quantity	3 units
Lighting Mode	Continuous Lighting Mode
Basic Parameters	
Power Interface	DC5521
Network Interface	RJ45*1
Fan	1PC
Switch	100M/1000M Auto-sensing



Sensor	Temperature Sensor, Humidity Sensor
Voltage	DC12V±5%
Power Consumption	5W (light off), 11W (fill light on)
Weight	4.5KG
Dimensions	395mm*253mm*136mm
Operating Temperature	-30°C-+70°C
Ingress Protection Rating	IP67

Application Scenarios



BLUE ROBOT AI

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

Email: support@bluerobotai.com

Website: <https://www.bluerobotai.com/>

