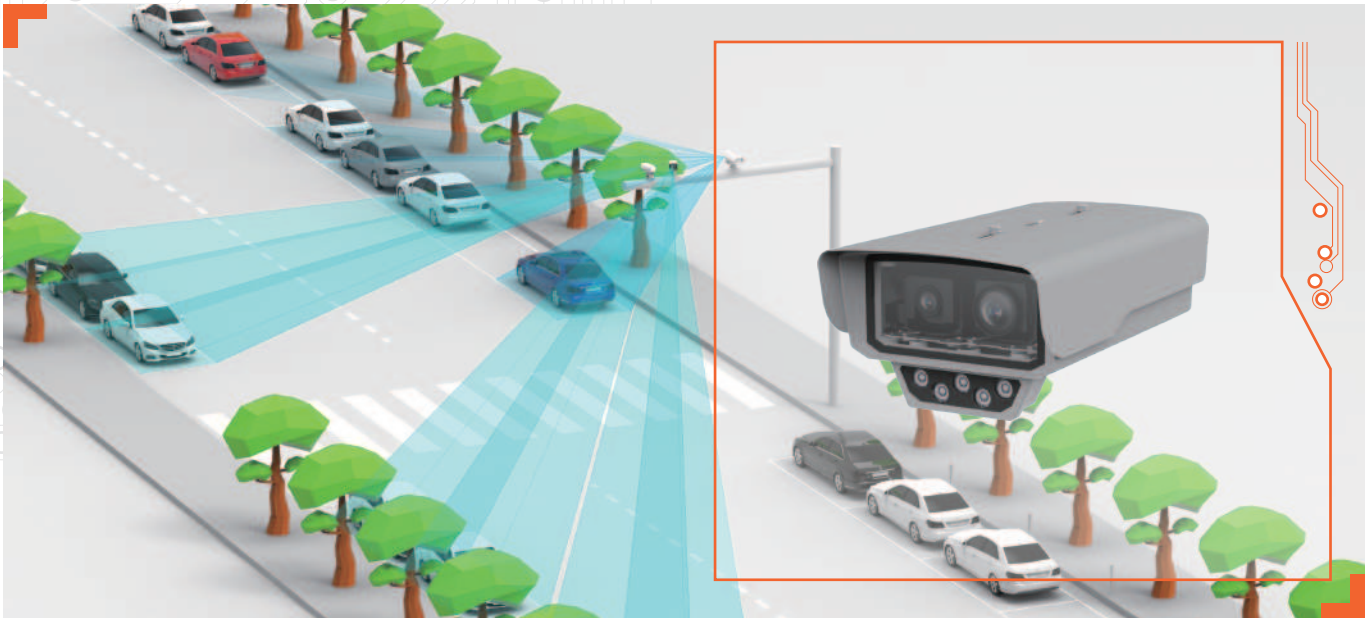
8MP high pole mounted parking binocular camera with motorized PTZ

BCS01-V4012Q-PRTF



Highlights

- Adopts an embedded front-end recognition solution with stable and reliable performance.
- Equipped with an 8MP HD camera, capable of detecting 6-8 parallel, perpendicular, or angled parking spaces.
- Uses a high-performance image sensor with support for wide dynamic range (WDR) and backlight compensation.
- Supports remote PT adjustment: 15° up/down/left/right.
- High-precision license plate recognition algorithm
- Supports parking space status detection (occupied/vacant).
- Supports dual-stream encoding and standard ONVIF protocol for integration with NVR recording.
- H.265 video compression supported to reduce bandwidth and storage.
- Supports TF card storage for offline operation.
- IP68-rated enclosure for dust and water protection.
- Comes standard with a three-axis universal bracket for easy installation.
- Integrated warm-light illumination to reduce light pollution.
- Low overall power consumption; environmentally friendly design.

Application Scope

Designed for urban roadside parking spaces, including parallel, diagonal, and perpendicular layouts; supports management of 6 to 8 parking spaces

▪ Parameters

	Product Name	8MP high pole mounted parking binocular camera with motorized PTZ
	Model	BCS01-V4012Q-PRTF
Camera Specifications	Camera Main Chip	Dedicated Embedded License Plate Recognition Chip
	Camera Sensor	8MP, 1/1.8 “CMOS
	Lens	Motorized Zoom Lens,11~29mm for closed-range,13~55mm for large-range
	Maximum Image Size	8MP（3840*2160）
	Frame Rate	5-25fps selectable, default 25fps
	Image Functions	Wide Dynamic Range,Backlight Compensation,Anti-flicker
	3A Control	Auto White Balance,Auto Gain Control,Auto Exposure
	Image Parameters	Adjustable brightness, hue, contrast, and saturation
	Noise Reduction / Signal-to-Noise Ratio (SNR)	3D Digital Noise Reduction (DNR) / 50dB
	Compression Format	H.264/H.265
	Dual Stream	Supported
Software Function Parameters	Parking Space Detection	6 to 8 parallel,diagonal,perpendicular parking spaces
	Supported Plate Types	Standard and special-format plates including single-line, double-line, reflective, non-reflective, commercial, diplomatic, military, and new energy vehicle plates; customizable plate pattern library for different countries and regions
	Abnormal Occupancy Alert	Line-crossing Parking,Overlapping Parking,Reverse Parking,Parking Outside Space,Non-motorized Vehicle Occupancy,Unlicensed Vehicle Occupancy,Repeated Entry/Exit from Parking Space
	Character Overlay	Time, Parking Space Number,Custom Information,Recognition Result
	Network Protocols	TCP/IP,HTTP,RTSP
	ONVIF	Supports standard ONVIF protocol
Hardware Specifications	Network Ports	2 × 100M adaptive RJ45 ports
	Motorized PT	15° adjustable in all directions
	Illuminator	9 warm white LEDs with adjustable brightness
	Pole Mount	Standard all directions pole mount
	Input Voltage	DC 12~24V
	Ingress Protection (IP Rating)	IP68
	Total Power Consumption	≤30W
	Electrostatic Discharge (ESD)	Air discharge: 8kV,Contact discharge: 6kV
	Surge Protection	4KV
	Operating Temperature	-35°C to +70°C
	Operating Humidity	20% to 90% RH (non-condensing)
	Dimensions(mm)	228(W)*167(H)*425(D)
	Net Weight	≤5kg

Installation Notes

1. Recommended installation height: 4.7-6 meters/For on-street high-mounted cameras, 6 meters is recommended/For mid-mounted cameras, 4.7 meters is recommended
2. At a height of 6 meters, the horizontal blind zone for parallel parking spaces is approximately 18 meters/At a height of 4.7 meters, the horizontal blind zone is approximately 15 meters