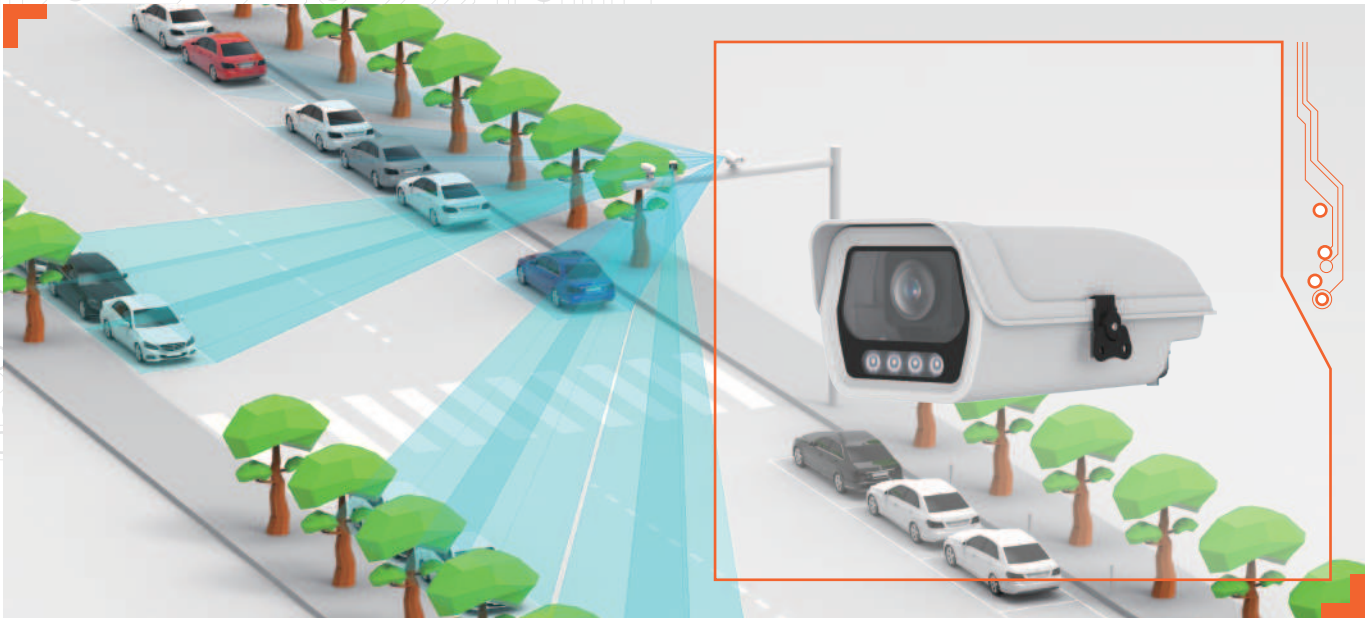
8MP high pole mounted parking camera with motorized PTZ

BCS01-V4011V-TF/Z-TF



Highlights

- Adopts an embedded front-end recognition solution with stable and reliable performance
- Compact design with a net weight of less than 1.8 kg; suitable for pole-mounted deployment scenarios
- 8MP high-definition camera capable of detecting 3 to 5 parallel, vertical, or diagonal parking spaces
- Equipped with high-performance sensor, supporting wide dynamic range (WDR) and backlight compensation
- Supports micro motorized PTZ debugging
- High-accuracy license plate recognition algorithm
- Supports parking space status detection, including occupied and vacant space monitoring
- Supports dual-stream output and ONVIF standard protocol; compatible with NVRs for recording
- H.265 video encoding reduces bandwidth and storage requirements
- Features a side-opening enclosure for convenient cabling and installation. Rated IP65 for dust and water resistance
- Dual-network port with cascading (hand-in-hand) support for simplified network installation
- Integrated warm light illuminator to reduce light pollution
- Low overall power consumption for energy-saving and eco-friendly operation

Application Scope

Designed for urban roadside parking spaces, including parallel, diagonal, and perpendicular layouts; supports management of 3 to 5 parking spaces

▪ Parameters

	Product Name	8MP high pole mounted parking camera with motorized PTZ
	Model	BCS01-V4011V-TF,BCS01-V4011Z-TF
Camera Specifications	Camera Main Chip	Dedicated Embedded License Plate Recognition Chip
	Camera Sensor	8MP, 1/1.8 "CMOS
	Lens	11-29mm (Model: BCS01-V4011V-F) 13-55mm (Model: BCS01-V4011Z-F)
	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	3 to 5 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	4 warm white LEDs with adjustable brightness
	Input Voltage	DC 12~24V
	Ingress Protection (IP Rating)	IP65
	Total Power Consumption	≤10W
	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)	164(W)*109(H)*275(D)
	Net Weight	1.8Kg

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