



F4A series (PTZ) Smart Parking Guidance Camera



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F4A series

(PTZ) Smart Parking Guidance Camera



Exclusive Innovation Leading Technology

PoE design for 1 line to deploy 16 cameras, Automatic drawing of parking space
Remote debugging no need to the side, Reducing debugging time 70%

Professional parking space management

Parking abnormal event perception: Line pressing parking detection / Foreign object detection/ Pedestrian detection audible alarm event reminder / VIP parking space reminder

Deep design based on scene

Bluetooth upgrade: Precise navigation, ultra-thin body all in one device design



Technical specifications

Basic	Model	F4A-M Standard Version	F4A-S Flagship Edition
	Type	4MP Single/binocular lens micro PTZ 3/6 parking space intelligent camera	4MP Single/binocular micro pan tilt 3/6 parking space intelligent camera
Imaging Video	Maximum resolution	2560 (H) X1440 (V)	2560 (H) X1440 (V)
	Compression standard	H. 264	H. 264
Audio frequency	Voice Announcements	Support	Not support
	Event sound prompt	Support and can customizable for upload	Not support
Lens PTZ	Standard/optional	Optional 2.8mm, 4mm, 6mm fixed focus lenses	Optional 2.8mm and 4mm fixed focus lenses
	Adjustment range	Manual micro PTZ table, angle range is -20°~40°	Automatic micro cloud platform, support remote debugging, angle range is -20°~40°
Indicator light	Mutual control	Support external indicator light mutual control (7 colors: red, green, white, yellow, purple, dark blue, light blue)	
	Event light prompt	Support events such as line parking, foreign object occupancy, personnel detention, and non whitelisted vehicle occupancy	
Algorithm	Parking space occupancy recognition rate and speed	The occupancy recognition rate of parking space ≥ 99.8%, and the time for changing the lights of the parking space is ≤ 3 seconds after leaving/entering the venue	
	License plate recognition rate and speed	License plate recognition rate ≥ 99.6%, license plate recognition speed: ≤ 3 seconds after park steadily	
	License plate recognition type	Smart camera identification the same license plate, supporting unlicensed vehicles	Smart camera identification the same license plate, support unlicensed vehicles and international license plates
	Vehicle structured data	Not supported	Supported, can recognize structured data of car brand, model, type, and color
Foreign object occupancy recognition	Person stagnation identification	Support, can read two wheel vehicles, three wheel vehicles, shopping carts, and cone barrels	Support, can read two wheel vehicles, three wheel vehicles, shopping carts, and cone barrels
	Person stagnation identification	Support	Support
Automatically draw parking space line	Line pressing parking recognition	Support	
	Bluetooth reverse car search	Support, providing bluetooth positioning	
Bluetooth controlled car lock		Support control bluetooth car lock lifting (binocular cameras can support binding up to 6 floor locks, with a deployment distance of <10 meters)	
Communication	Network Protocol	TCP/IP, DHCP, ARP, DDNS, HTTP, NTP, RTSP, ONVIF	
	Bypass network	Up to 128 devices for image transmission or 16 devices for video transmission	
	Bluetooth	Support BLE 4.2	
	Serial port	1 channel RS485	
Reliability	Operating environment	Standard working voltage DC 12V/1A, supporting wide range power supply of DC 8-36V; Camera power consumption ≤ 3W, external light power consumption ≤ 2W; Temperature -20°C to 60°C	
	PoE	Standard PoE: Supports 802.3af standard PoE; Non standard PoE: Use non standard PoE combiner kit, supports up to 16 camera handles	
Structure	Size	112mm(L) x 112mm(W) x 95mm(H)	129mm(L) x 129mm(W) x 122mm(H)
Administration	Service	Support for user management, PC management tools, SDK development kits	



VZEYE



RFA series

Smart Electric Vehicle Parking Space Management Camera



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RFA series

Smart Electric Vehicle Parking Space Management Camera



Eliminate space occupation, increase the turnover rate charging parking spaces

Eliminate space occupation (fuel vehicles/non motorized vehicles/cross parking)
Eliminate the "long stop, short charge" and "stop but not charge" of EV

Accurate report order based parking incidents

One charge, one entry and exit event output, simplified business platform docking process, 1m extreme large angle recognition and ultra long tracking technology, eliminating missed detection and fearless obstruction

The ultimate experience of charging parking operation

Frontend intelligent sound and light active operation: parking voice guidance, abnormal situation alarm driving, ground lock status self checking, reducing operation and maintenance costs, remote perception without running errands



1 device for 2 parking spaces



Linkage with smart car lock



4m long distance voice intercom



Avoid invalid parking space occupation

Technical specifications

Basic	Model	RFA
	Form	3MP All in one device
Imaging	Image sensor	1/2.8" CMOS
	Image resolution	2304 (H) x 1296 (V)
	Minimum illumination	0.5lux
Lens	Standard configuration	Fixed focus 2.8mm
Video	Video coding	Multi channel H.264/H.265 video output
Audio frequency	Audio frequency	Audio output: supports 2W power amplifier, audio input: supports 1 mic input
Intelligent algorithms	Comprehensive capture recognition rate	Comprehensive capture rate $\geq 99\%$; Comprehensive recognition rate $\geq 99\%$
	License plate recognition type	Large and small new energy license plates (small A and B fields), ordinary blue license plates, single double yellow license plates, single double police license plates, single double armed police license plates, single double military license plates, embassy license plates, consulate license plates, coach license plates, Hong Kong and Macao entry and exit mainland license plates, emergency license plates, civil aviation license plates, etc
	Algorithm	License plate anti-counterfeiting, video triggering of unlicensed vehicles, vehicle logo recognition, vehicle model recognition, body color recognition, license plate whitelist, and license plate intelligent calibration
Alarm	Alarm input	1 switch input
	Alarm output	2-way switch output (not supported for forms with external lights)
Network	Network interface	One 100 Mbps RJ45 Ethernet interface
	Wifi	Not support
Other	Serial port	2-way RS485
	Storage	Cloud based continuous video storage
Light	Fill light	Built in 2 LED fill lights
Power supply	Power supply	12V DC
	Power dissipation	$\leq 8W$ (including power consumption of fill light)
Stability	working temperature	$-40^{\circ}C$ to $+70^{\circ}C$
	EMC	Static electricity: contact 6KV, air 8KV surge: 10/700, common mode 4KV, differential mode 2KV
	Waterproof	IP66