Smart Parking Pillars
w/ Low Carbon Emissions

IF-SP-CAM

- Customizable Firmware: Integrates with customer-specific cloud backends.
- Smart RTOS System: Auto sleep, fast startup, configurable photo/upload/sleep settings
- Enhanced Accuracy: Optional geomagnetic sync boosts precision and reliability

- 4G/LTE or Wi-Fi: Wireless setup with no underground wiring for easy, low-cost installation
- Self-Sufficient Power: Solar and lithium battery combo with zero emissions and no replacements
- Energy-Efficient: Wakes every 5 minutes to capture and upload, lasts up to 12+ months

Smart Parking Pillars reduce installation and maintenance costs by eliminating underground wiring. Their low-carbon, energy-efficient design enables faster, easier deployment while supporting modern urban mobility goals.

Each pillar features a dual-lens camera and an RTOS system for quick startup and low power use. The Sub Camera runs over a year on solar and rechargeable batteries, with built-in lighting control for added visual appeal. The Main Camera includes all the same capabilities and adds support for mobile and QR code payments, card readers, and optional PM2.5 sensors—making it a multifunctional solution for smart city infrastructure.

The system only activates when a vehicle is detected, consuming just 500µA in standby and 320mA during operation. It captures images within 300 milliseconds, then returns to sleep mode for optimal efficiency. With minimal battery replacements and zero emissions, Smart Parking Pillars serve as a reliable, sustainable foundation for connected urban spaces.

Main Specification	
Image sensor	1/2.8 inch CMOS sensor
Resolution	2MP (1920 x 1080)
Type	Fixed lens / Focal length: f=2.8mm, F1.85
Viewing angle	120° (H), 62° (V), 140° (D)
Local Storage	Supports Micro SD/SDHC/SDXC slot, supports memory card up to 256GB
Video compression format	H.264/MJPEG
Image resolution	1080P@30fps / 720P@30fps
Alarm Notification	Send event images /snapshots to FTP/Email/HTTP/Email notification
Network Interface	4G/LTE Cat.1 bis Nano SIM module
Communication protocols	TCP/IP, UDP, DHCP, NTP, DNS, SMTP, FTP, Samba, UPnP, RTP, RTSP, RTCP
Power input	DC 5V 2A / USB Type-C connector
Housing	IP66 waterproof and dustproof

Product Appearance and Size: