



# VPMS SOLUTIONS

## PRODUCT CATALOGUE

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# VEHICLE PARKING MANAGEMENT SYSTEM

**AI-powered technology • Scalability • User-friendly Interface**

# ABOUT US

PT Batukarang Kenan Abadi adalah perusahaan teknologi inovatif yang hadir untuk memberikan solusi berbasis Internet of Things (IoT) dalam mendukung pengelolaan infrastruktur modern. Berdiri sejak Maret 2024, kami hadir memberikan solusi andal berupa Vehicle Parking Management System (VPMS) untuk memenuhi kebutuhan modern dalam pengelolaan parkir yang mencakup pengaturan kendaraan masuk dan keluar, pengawasan real-time, pengelolaan data kendaraan, hingga sistem pembayaran otomatis.

**Where Professionalism Meets Personalization,  
Perfecting Every Detail.**



**CLEMENT HANSEL**  
Chief Executive Officer

Dengan VPMS, kami hadir untuk membantu bisnis Anda memberikan layanan parkir terbaik, mengurangi kemacetan, dan menciptakan lingkungan yang lebih terorganisir serta user-friendly. Kami percaya bahwa parkir bukan hanya soal ruang, tetapi pengalaman, efisiensi, dan keamanan. Bersama kami, kelola parkir Anda dengan cerdas, andal, dan lebih terintegrasi.



# Vehicle Parking Management System (VPMS)



## Vehicle Entrance & Exit Management

Sistem manajemen tradisional yang mengandalkan pencatatan manual sering kali tidak efisien dan rentan terhadap kesalahan. Kendaraan yang belum terdaftar sering kali harus mengantre panjang hanya untuk verifikasi atau pendaftaran, yang akhirnya membuat pengalaman pengguna kurang nyaman. Selain itu, pencatatan manual yang dilakukan secara berkala menyulitkan pengelola dalam melacak dan memonitor data kendaraan secara real-time, sehingga memperlambat respons terhadap insiden dan membuat operasional menjadi kurang optimal.



Identifikasi tamu dan kendaraan terdaftar secara manual kurang efisien sehingga dapat menyebabkan risiko pencurian, kehilangan properti, atau insiden keamanan.



Antrian panjang untuk proses verifikasi akses dan pencatatan manual berkontribusi besar terhadap menurunnya pengalaman pengguna secara keseluruhan.



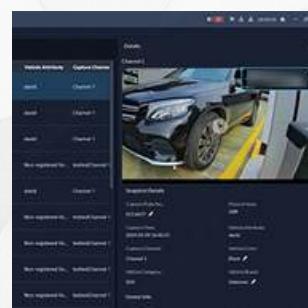
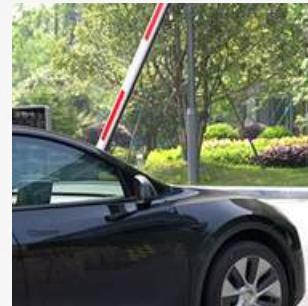
Melacak catatan keluar masuk kendaraan melalui dokumentasi manual sangat sulit dan tidak efisien.

# Vehicle Parking Management System (VPMS)

## VALUE

Dengan memilih Vehicle Entrance and Exit Management Solution kami, Anda mendapatkan solusi cerdas yang memberikan nilai tambah nyata bagi keamanan dan efisiensi fasilitas Anda. Solusi ini akan mengidentifikasi tamu dan kendaraan terdaftar secara otomatis, cepat dan akurat, sehingga mengurangi potensi risiko keamanan, pencurian, dan kehilangan aset.

Selain itu, sistem ini mempercepat proses verifikasi akses tanpa antrian panjang, menciptakan pengalaman yang lebih nyaman dan profesional bagi para pengguna. Data keluar masuk kendaraan juga tercatat secara otomatis dan terpusat, memudahkan pengelola untuk melacak rekam jejak kendaraan secara real-time dan meningkatkan respons terhadap insiden.



**ANPR (Automatic Number Plate Recognition)** dapat membantu mencegah masuknya kendaraan yang tidak terdaftar/tidak memiliki izin.

Palang pintu yang terintegrasi dengan teknologi ANPR mampu mengenali plat nomor hanya dalam 0,8 detik, sehingga memungkinkan akses kendaraan yang akurat dan efisien serta memastikan pengalaman berkendara yang lancar.

Verifikasi akan meningkatkan efektivitas pencatatan serta pencarian data kendaraan

## TC413-PW4D



### Dahua Access ANPR Camera

- > High-performance CMOS image sensor and processor that supports continuously extracting metadata 24/7.
- > Adopts intelligent deep learning algorithms and supports recognition of unlicensed vehicles and the type, brand and color of vehicles.
- > Built-in signal port, data port, communication port and remote controllers assist in controlling external devices such as entry and exit barriers.
- > Built-in LED for simplified installation and commissioning.
- > All-in-one structure with junction box and bracket, and it is also low power consumption.
- > IP67 and IK10 rated.
- > Supports intrusion and loitering detection and triggers light and voice alarms when perimeter events occur to actively deter targets. Custom audios can also be imported and edited.
- > Easily adapts to scenarios through its motorized vary-focal lens.

## VTO4202F-P-S2

### 2Mp Modular Apartment Door Station



- > Anodized aluminum front panel
- > CMOS low illumination 2MP HD colorful 160° fisheye camera
- > Video intercom function
- > Access control function hat supports two locks
- > Mobile phone app, talk to the visitor or unlock the door remotely on your phone
- > Compatibility 2-wire Interface & RJ45 Interface
- > IK07&IP65
- > Support H.265
- > Support surface and flush mount
- > Modules make the device with great expansibility

## QSY531

### Satellite data terminal

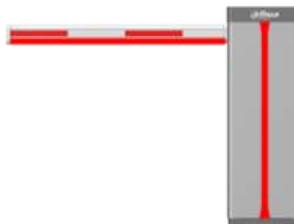
- > Data speed: 9.6KPBS
- > Satellite location: RS232/UART
- > External power supply: GPS, BEIDOU
- > Interface: -40°C~+80°C
- > Working temperature: 3.7V ~12V
- > Network protocol: TCP/UDP/PPP
- > Satellite text message: yes



## IPMECD-302X

### Straight Arm/Folding Arm Barrier

- > Attractive housing with sheet metal and an aluminum profile design.
- > Designed with anti-smashing adhesive tape made of polymer polyurethane material, the arm is safe, stable and has a long service life.
- > Supports being connected to an anti-smashing radar, loop and IR device, and has a built-in 12 VDC motherboard that can power the radar.
- > Developed with an LED light belt, the housing and straight arm appear red when the arm falls, and green when it rises.
- > Automatically rises when the barrier arm makes contact with an object.
- > Rises automatically during a power failure.
- > With rolling code technology, the barrier supports remote control at a maximum distance of 50 m (164 ft) when in an open environment that does not have interference.
- > Motor lifespan: 5 million cycles.
- > Spring lifespan: 5 million cycles.
- > Operating temperature: -40 °C to +70 °C (-40 °F to +158 °F).
- > Operating humidity: 10%–90%.
- > IP55 rated.



## ITSXS-1201-44



### Entrance and Exit LED Display

- > Highlighted LED module displays in 64 × 64 lattice diagram (4.75 mm pixel pitch) with adjustable brightness
- > Supports voice broadcast
- > 3 built-in LED illuminators with adjustable brightness
- > Supports screen bad pixel (abnormal LED) detection
- > Supports online update of program and character library
- > Conforms to EMC CLASS A standards
- > Conforms to ROHS standards

## ITSJC-2303

- > Uses the latest algorithm to filter interference and is suitable for advertising barriers, fence arm barriers, straight arm barriers, and folding arm barriers.
- > Adjustable detection distance and width, applicable to multiple scenes.
- > Supports updating through serial port and mobile app (with Wi-Fi connection), and allows online commissioning and firmware update.
- > The radar reads the surroundings automatically, which makes it applicable to complicated scenes.
- > Connects to cameras through RS-485 to obtain parameters and working logs of the radar on camera web interface.



## PFS3110-8ET-96

### 10-Port Unmanaged Desktop Switch with 8 Port PoE

- \* The parameters and datasheets below can only be applied to V2.0 (version 2.0)
- > Intelligent PoE
- > BT 90W
- > 8-pin assignment PoE power supply
- > Long distance PoE
- > PoE watchdog
- > Wide working temperature



## NVR5216-EI

### Dahua 16CH 2HDD 1U NETWORK VIDEO RECORDER



- > Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- > Max. decoding capability: 32 × 1080p@30 fps or 16 × 4MP@30 fps.
- > Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
- > Supports IP cameras with a resolution up to 32 MP.
- > Supports AcuPick with up to 16 channels.
- > Supports N+M cluster, iSCSI.
- > AI by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-channel SMD Plus.
- > AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- > Supports EPTZ, and one-click arming and disarming.

## LM32-F200

### 32" FHD Monitor

- > Light and cost-effective plastic housing
- > Suitable for continuous 24/7 operation
- > 178°H/178°V extra-wide viewing angle for overall viewing performance
- > High fidelity digital processing for a brilliant and vivid video
- > 8ms fast response time with no image blurring or ghosting
- > Support multiple signal inputs such as HDMI, VGA and USB
- > Built-in speakers
- > Physical button and infrared remote dual control mode
- > Low energy consumption, long service life





# Fire Lane Parking Detection

## CHALLENGE

Jalur darurat kebakaran adalah jalur penting yang sangat berpengaruh pada keselamatan orang dan properti di sekitarnya. Namun, jalur ini sering terhalang oleh kendaraan, yang dapat menyebabkan kerugian besar. Inspeksi manual konvensional tidak dapat memberikan pemantauan 24/7, sehingga pelanggaran parkir di jalur darurat kebakaran sering kali tidak terdeteksi tepat waktu. Kurangnya bukti yang memadai juga membuat pelanggaran sulit ditindaklanjuti setelah terjadi.

1

Hambatan pada jalur darurat kebakaran dapat menyebabkan kerugian dan kerusakan yang serius.

2

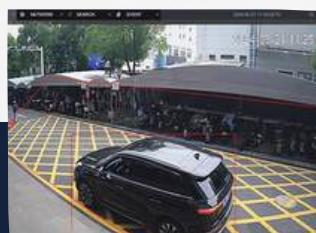
Kurangnya bukti yang memadai membuat pelanggaran sulit ditindaklanjuti setelah terjadi.

3

Inspeksi manual konvensional tidak dapat memberikan pemantauan 24/7, sehingga pelanggaran parkir di jalur darurat kebakaran sering kali tidak terdeteksi tepat waktu.



Solusi Fire Lane Parking Detection menggunakan algoritma AI untuk mendeteksi parkir ilegal di jalur darurat kebakaran secara akurat. Sistem ini memberikan notifikasi langsung kepada petugas keamanan untuk menangani pelanggaran dengan cepat. Selain itu, rekaman video yang jelas dari parkir liar ini dapat menjadi bukti penting untuk investigasi lebih lanjut.



### Round-the-Clock Accurate Detection

Sistem kami menawarkan pemantauan terus-menerus 24/7 dengan menggunakan algoritma AI canggih untuk mendeteksi parkir ilegal di jalur darurat kebakaran.

### Instant Security Notifications

Sistem mengirimkan pemberitahuan langsung kepada petugas keamanan untuk merespons dengan cepat

### Clear Video Recordings

Rekaman video yang jelas dapat digunakan sebagai bukti untuk keperluan investigasi.

## IPC-HFW5442T-ASE

### 4MP IR Fixed-focal Bullet WizMind Network Camera

- \* The parameters and datasheets below can only be applied to 5442-ASE-S3 series.
- > 4-MP 1/1.8" CMOS image sensor, low luminance, and high-definition image.
- > Outputs max. 4 MP (2688×1520) @25/30fps.
- > Built-in IR LED, and the max. illumination distance is 80 m.
- > ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- > Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- > With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- > Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 1 TB Micro SD card, built-in MIC.
- > 12 VDC/PoE power supply; ePoE.
- > IP67 and IK10 protection.
- > SMD 3.0.



## NVR5208-EI

### Dahua 8CH 2HDD 1U NETWORK VIDEO RECORDER



- > Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- > Max. decoding capability: 32 × 1080p@30 fps or 8 × 8MP@30 fps.
- > Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
- > Supports IP cameras with a resolution up to 32 MP.
- > Supports AcuPick with up to 8 channels.
- > Supports N+M cluster,iSCSI.
- > AI by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-channel SMD Plus.
- > AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- > Supports EPTZ, and one-click arming and disarming.

## IS4210-8GT-120

### 10-Port Managed Industrial Gigabit Switch with 8-Port PoE (Managed)

- > All-gigabit port design.
- > Supports IEEE802.3af, IEEE802.3at, Hi-PoE and IEEE802.3bt (red port) standards.
- > 250 m long-distance PoE transmission (10 Mbps).
- > PoE Watchdog.
- > Supports STP, RSTP, and ERPS.
- > IEEE802.1Q-based VLAN configuration.
- > Manual link aggregation and static LACP.
- > Desktop mount and DIN-rail mount.



## LM22-B200S

### 21.45" FHD Monitor

- > Light and cost-effective plastic housing;
- > Ultra-narrow bezel, elegant appearance, metal base;
- > 178°H/178°V extra-wide viewing angle for overall viewing performance;
- > High fidelity digital processing for a brilliant and vivid video;
- > Support multiple signal inputs such as HDMI, VGA;
- > Physical button control mode;
- > Low energy consumption, long service life;
- > Anti-blue light design, eye-protective.



# OVER SPEED DETECTION

## CHALLENGE

Di lingkungan tertentu seperti kawasan industri, kompleks perumahan, area pendidikan, hingga jalanan umum yang dikelola pemerintah, keselamatan menjadi prioritas utama. Namun, perilaku pengemudi yang melaju dengan kecepatan berlebih (overspeeding) akan meningkatkan risiko kecelakaan fatal, kerusakan fasilitas dan membahayakan nyawa orang sekitar.

Tantangan yang dihadapi meliputi terbatasnya sumber daya untuk pengawasan real-time, sulitnya memonitor semua area berisiko secara terus-menerus, serta kurangnya bukti yang memadai untuk mendukung penegakan hukum. Upaya seperti pemasangan rambu lalu lintas atau patroli berkala sering kali tidak cukup untuk mencegah pelanggaran secara efektif.

Diperlukan solusi cerdas yang mampu mendeteksi, merekam, dan melaporkan pelanggaran kecepatan dengan akurasi tinggi. Dengan teknologi ini, pemerintah dapat menciptakan sistem yang lebih aman, meningkatkan kepatuhan pengemudi, dan mengurangi risiko kecelakaan, sehingga menciptakan lingkungan yang lebih tertib dan nyaman bagi masyarakat.



Sistem pemantauan kecepatan kendaraan 24/7 dengan akurasi tinggi dan segala cuaca meningkatkan keselamatan. Pengumpulan data akurat, dan respons cepat.



Display secara real-time dengan peringatan audio meningkatkan kesadaran pengemudi untuk memperlambat kecepatan kendaraan.



Pengambilan bukti video yang terintegrasi mempercepat efisiensi waktu dan meningkatkan akurasi informasi.

## ITACS-024SA-JB

### Radar Speed Sign

- > Speed measurement range: 5km/h–199km/h
- > Speed measurement distance: 20m–100m (65.62ft–328.08ft)
- > Lane coverage: 4 lanes at most
- > Display mode: Two-color LED display. Red numbers for overspeed, and green numbers for normal speed. Up to 3 digits can be displayed, and the largest number can be displayed is 199
- > Power consumption: Radar: <5W; LED display: <40W



## ITC413-PW4D Series

### Dahua Access ANPR Camera



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## LM22-B200S

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- > Ultra-narrow bezel, elegant appearance, metal base;
- > 178°H/178°V extra-wide viewing angle for overall viewing performance;
- > High fidelity digital processing for a brilliant and vivid video;
- > Support multiple signal inputs such as HDMI, VGA;
- > Physical button control mode;
- > Low energy consumption, long service life;
- > Anti-blue light design, eye-protective.



# PARKING GUIDANCE SOLUTION



## CHALLENGE

Parking Guidance Solution dirancang untuk meningkatkan efisiensi parkir di berbagai lokasi, seperti gedung perkantoran, pusat perbelanjaan, dan kawasan industri. Solusi ini menggunakan teknologi kamera canggih yang mendeteksi ketersediaan tempat parkir secara real-time dan memberikan panduan visual kepada pengemudi, sehingga mereka dapat menemukan tempat kosong dengan cepat dan mudah.



## DS-TCP440-B(ES)

### Parking Camera with audio function

- > Built-in high-performance algorithm, supporting ANPR (accuracy  $\geq 99.5\%$ ), detection of the parking space status (accuracy  $\geq 99.99\%$ ), and smart analysis of crossing over line, motion detection, etc.
- > HD 4.0 MP camera, applied in environment with low illumination such as underground garage.
- > 3D noise reduction to guarantee clean and exquisite image.
- > Smart detection of the parking space status, and smart analysis of crossing over line, motion detection, etc.
- > Energy-saving LED with high brightness and low consumption.
- > Speed recognition in second accuracy to indicate the parking space status in real time and provide accurate available parking space number.
- > Network wiring with easy connection, installation, and maintenance.
- > ROI encoding.
- > Two RJ45 interfaces, supporting connecting cameras in series, and no power cord is needed.
- > Built-in iBeacon module, supporting indoor positioning and navigation with the help of APP. iOS or Android SDK is provided.
- > Support audio output function.
- > Support setting the broadcast volume and frequency, setting the volume and broadcast number according to the time period, driving away the broadcast of special parking spaces and the detection of the line pressing.



## DS-TCP440-DB(ES)

### Dual-Sensor Parking Camera with audio function



- > Built-in high-performance algorithm, supporting ANPR (accuracy  $\geq 99.5\%$ ), detection of the parking space status (accuracy  $\geq 99.99\%$ ), and smart analysis of crossing over line, motion detection, etc.
- > HD 4.0 MP camera, applied in environment with low illumination such as underground garage.
- > 3D noise reduction to guarantee clean and exquisite image.
- > Smart detection of the parking space status, and smart analysis of crossing over line, motion detection, etc.
- > Energy-saving LED with high brightness and low consumption.
- > Speed recognition in second accuracy to indicate the parking space status in real time and provide accurate available parking space number.
- > Network wiring with easy connection, installation, and maintenance.
- > ROI encoding.
- > Two RJ45 interfaces, supporting connecting cameras in series, and no power cord is needed.
- > Built-in iBeacon module, supporting indoor positioning and navigation with the help of APP. iOS or Android SDK is provided.
- > Support audio output function.
- > Support setting the broadcast volume and frequency, setting the volume and broadcast number according to the time period, driving away the broadcast of special parking spaces and the detection of the line pressing.

## ITACS-024SA-JB

DDS-TCP440-B

4 MP iBeacon Guidance Camera

- > Built-in high-performance algorithm, supporting ANPR (accuracy  $\geq 99.5\%$ ), detection of the parking space status (accuracy  $\geq 99.99\%$ ), and smart analysis of crossing over line, motion detection, etc.
- > HD 4.0 MP camera, applied in environment with low illumination such as underground garage.
- > 3D noise reduction to guarantee clean and exquisite image.
- > Smart detection of the parking space status, and smart analysis of crossing over line, motion detection, etc.
- > Energy-saving LED with high brightness and low consumption.
- > Speed recognition in second accuracy to indicate the parking space status in real time and provide accurate available parking space number
- > Network wiring with easy connection, installation, and maintenance.
- > ROI encoding.
- > Two RJ45 interfaces, supporting connecting cameras in series, and no power cord is needed.
- > Built-in iBeacon module, supporting indoor positioning and navigation with the help of APP. iOS or Android SDK is provided.



## DS-TCP440-DB

4 MP Dual-Sensor iBeacon Guidance Camera

- > Built-in high-performance chip, supporting ANPR (accuracy  $\geq 99.5\%$ ), detection of the parking space status (accuracy  $\geq 99.99\%$ ), and smart analysis of crossing over line, motion detection, etc.
- > HD 4.0 MP camera, applied in environment with low illumination such as underground garage.
- > 3D noise reduction to guarantee clean and exquisite image.
- > Smart detection of the parking space status, and smart analysis of crossing over line, motion detection, etc.
- > Energy-saving LED with high brightness and low consumption.
- > Speed recognition in second accuracy to indicate the parking space status in real time and provide accurate available parking space number
- > Network wiring with easy connection, installation, and maintenance.
- > ROI encoding.
- > Two RJ45 interfaces, supporting connecting cameras in series, and no power cord is needed.
- > Built-in iBeacon module, supporting indoor positioning and navigation with the help of APP. iOS or Android SDK is provided.



## DS-TCP506

### 5MP Fisheye Parking Camera

- > 5 MP HD camera with max. 2688 × 1944 resolution and 25 fps frame rate in the fisheye mode. It is applicable to the underground parking lot and other low illumination scenes. High quality imaging with 1/2.7" progressive scan CMOS. 0.04 lux low illumination with clearer imaging at night.
- > Adopts ultra wide-angle lens for 360° monitoring.
- > Supports multiple output modes, including the fisheye dual-channel calibration and 4-channel calibration.
- > Supports H.265/H.264/MJPEG video encoding algorithm and multiple video quality configuration and profile settings.
- > Support standard PoE and HIK-POE
- > Built-in AI intelligent algorithm of parking space detection supports to detect the parking space in the fisheye calibration mode.
- > Supports motion detection.



## DS-TCPC06

### 12MP Fisheye Parking Camera



- > 12 MP HD camera with max. 4000 × 3000 resolution and 15 fps frame rate in the fisheye mode. It is applicable to the underground parking lot and other low illumination scenes. High quality imaging with 1/1.7" progressive scan CMOS. 0.04 lux low illumination with clearer imaging at night.
- > Adopts ultra wide-angle lens for 360° monitoring.
- > Supports multiple output modes, including the fisheye dual-channel calibration and 4-channel calibration.
- > Supports H.265/H.264/MJPEG video encoding algorithm and multiple video quality configuration and profile settings.
- > Support standard PoE and HIK-POE
- > Built-in AI intelligent algorithm of parking space detection supports to detect the parking space in the fisheye calibration mode.
- > Supports motion detection.

# VPMS APPLICATION SCENARIO

## Government



Di area parkir fasilitas pemerintah, seperti kantor kementerian atau rumah sakit umum, VPMS membantu mengatur lalu lintas kendaraan dengan sistem otomatisasi, termasuk penghitungan kapasitas tempat parkir dan pemanduan kendaraan ke slot kosong.

## Residential



VPMS diterapkan di kompleks apartemen atau perumahan modern untuk menghindari konflik antar penghuni terkait parkir dan meningkatkan keamanan.

## Commercial



VPMS membantu pengelolaan parkir dengan sistem berbasis kuota dan otomatisasi.



# CONTACT US

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