

SMART PARKING MANAGEMENT

High EfficiencyUser FriendlyEasy Management



Efficient

ANPR Entrance

Convenient

Parking Guidance
Vehicle Locating

• Remote Control



- Safe • Comprehensive Surveillance
- High Definition

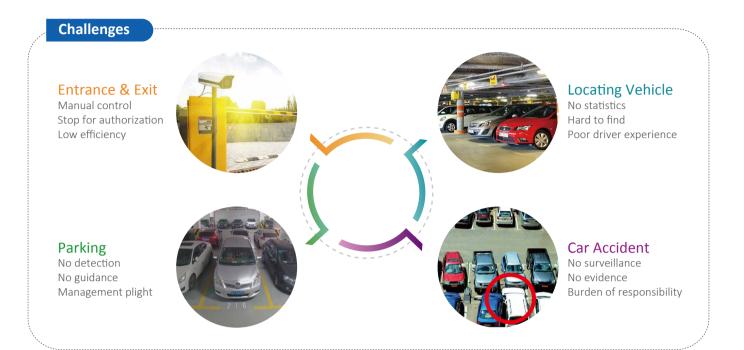


Cost Saving

- Easy Installation
- Unattended Management



PARKING MANAGEMENT CHALLENGES AND SOLUTION



How to address the challenges

How to improve entrance efficiency?

- Replace manual entrance control with ANPR technique
- Automatic control enhances the efficiency

How to make parking easy?

- Detect available space automatically
- Display available numbers in each area on the screens
- Guide driver to find available space

How to help drivers locate their car?

- ANPR technique provides car license plates data
- Display your car position on locating kiosk

How to keep accident evidence?

- Provide comprehensive video surveillance in parking lot
- Rich parking log including data, image and video



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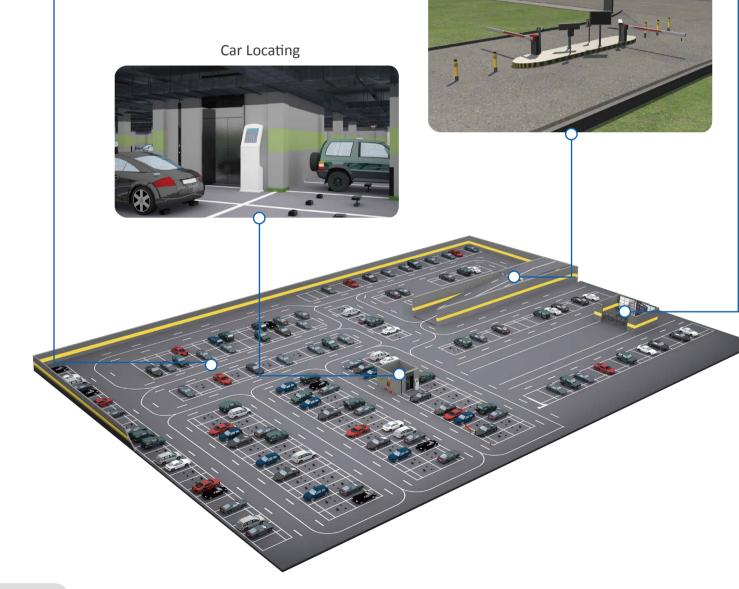
SOLUTION OVERVIEW



Parking Management



Entrance & Exit





APPLICATION DETAILS



• Take in everything in a glance

Available number is counted by software and displayed on the outdoor screen (DHI-IPMPGI series). Multi-area display (max 6 areas) is supported. Before driving inside, drivers could see the available number clearly via the LED screen.

Info Screen would show the indication information for the driver when enter or exit.





• No ticket and no stop

Vehicle access is controlled by ANPR Camera, without any tickets. It improves traffic flow with no delays.

ANPR Camera: Capture and recognize the vehicle plate, support video/loop detection and enable the barrier to open. Embedded with LPR algorithm, the camera could control barrier even when the management software is offline. Recognition rate \geq 95%.

• There is always a way in and out Call to administration center via VTO while abnormal situation occurs or visitors come.



• Flexible setting of access authorization Black/White List setting. Flexible template with plate, time, lane-channel and etc.

Parking Guidance



• Parking space guidance

Indoor screen (DHI-IPMPGI series) shows the numbers of available parking space at every direction, which could guide the driver to the available parking space efficiently. Parking light which is integrated with spot camera gives a visual guidance of the parking space by colour.



• No space to be hidden

Spot camera can automatically identify the current status of the parking space, and provide the car plate information to management center. At the same time, it could provide real time video stream to the administration center for security monitoring and evidence preservation.



• Special parking spaces indication

Built-in seven-colour indicator light, indicate different kinds of parking space obviously, such as VIP and reserved parking space. The light could even twinkle for warning, in case reserved or VIP parking space had been occupied illegally.

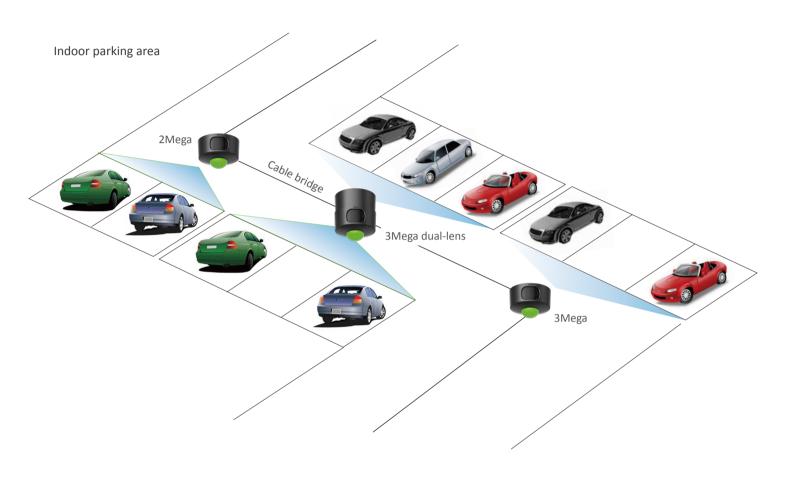


• Flexible spot detecting choices

Different parking scenes have cost-effective solutions respectively.

2Mega spot camera could detect two parking spaces. 3Mega spot camera could detect three parking spaces.

3Mega dual-lens spot camera could even detect six parking spaces, which could save over 25% of the cost for every parking space.



Indoor parallel parking



Car Locating



Car locating kiosk with touch screen makes it easy to find your car. Fuzzy search of license plate, confirm the vehicle image and its position. Furthermore, it could show the best path from kiosk to your car.



Parking Management



• Easy-to-use platform

Special design for parking management. Visual interface and operation, based on maps.

• Comprehensive surveillance

Car accident and property theft in parking lot make quite troubles for parking lot manager, as lack of evidences causes disputes. High definition video preview and record can be provided by access cameras and space detection cameras. Parking lot manager could help customers to find the video evidences of accident and unearth the incidents, which would benefit both the parking lot manager and customers.





- Intercom handling Response to visitor or emergency call by VTO.
- Remote management

Modify the vehicle information remotely. Control the barrier remotely.

• Smart search

Search the video and image by date/time/license plate.

• Parking log

Rich parking, entry and exit history log, including vehicle picture, license plate, parking space number, time information and etc.,

VIP Services

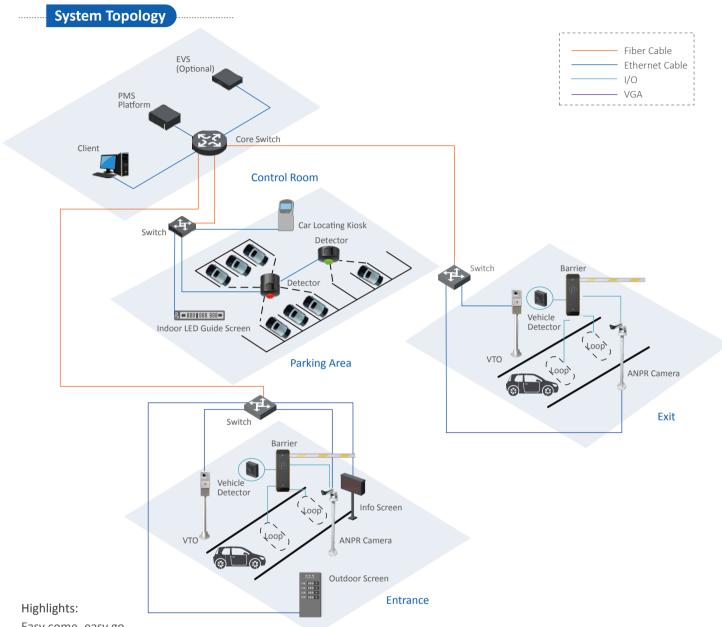
Reservation & VIP parking services

- Reservation services: making reservation of important customers conveniently.
- VIP parking services: guarding VIP reserved parking space, special indicator colour for VIP parking space.
- Illegal occupation warning: If reserved or special parking place is occupied illegally, there would be a warning for the administrator, and real-time video preview could display automatically. The administrator could activate sound-light alarm

to warn the illegal vehicle.



SOLUTION STRUCTURE & TOPOLOGY



Easy come, easy go

- Help you find available parking space.
- Locate your car and pay to leave conveniently.

ANPR, video or loop trigger optional

- Offer more economical choice.
- Recognition rate higher than 95%.

Comprehensive surveillance

- Provide 7×24 surveillance with access camera and spot detection camera.
- Search the video record and image by date/time/license plate number.

Networking management

• Support centralized networking management of multiple parking areas and parking lots.

Open system

• Open system with rich interfaces, to meet different customer requirements. Easy integration with 3rd party payment system.



KEY TECHNOLOGY

ANPR



Convenient entrance & exit with camera embedded ANPR

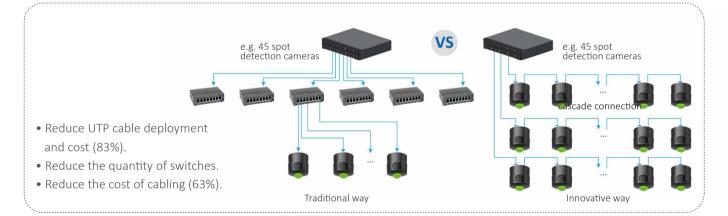
- Efficiency ANPR, complete plate recognition in less than 1 second.
- Video stream or image transferring is not required, less time consumption.
- Individual server for ANPR is not required, reduce the cost of server.
- More stable, even if the network is offline, ANPR would not be influenced.

Economic space detection

- Efficiency ANPR makes spot camera multi-function.
- Multi-space coverage, up to 3 space per lens and 6 space per camera.
- ANPR provides key information for vehicle locating.



Easy Deployment & Cost Down



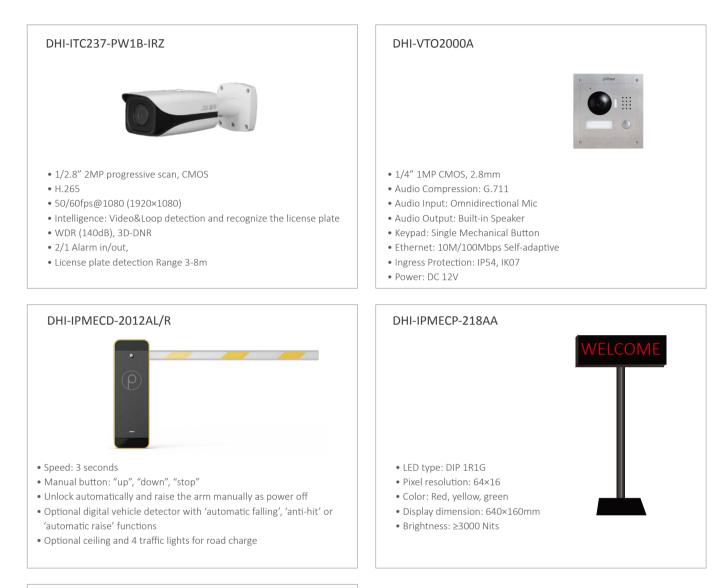
Professional Management Platform

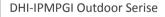


Special designed for parking management

- Based on map, easy-to-use visual interface.
- Professional functions, like reservation and VIP parking.
- Rich parking data, open for management and analysis.
- Improve management efficiency and reduce labour costs.

PRODUCT SHOWCASE







- Providing six layers LED display
- Red/Yellow/Green tricolor display
- Modular design, easy to maintain
- 1 RS485 port and 100Mb Ethernet port
- Providing SDK Tool for third-party management platform integration
- Meet the ROHS and CE certifications



PRODUCT SHOWCASE



- Special designed for parking management
- Simple deployment, one-key upgrade
- Safe and stable, high reliable
- Open system, good compatibility
- Distribution deployment, easy expansion
- Hot standby, high innovation
- Power performance, economical choice

- Max 1536Mbps Incoming/recording Bandwidth
- 24 HDDs, SAS/SATA, Hot-Swap
- Supports RAID 0/1/3/4/5/6/10/50/60/JBOD, Hotspare
- iSCSI and Mini SAS for Expanded Storage Space
- Support standard iSCSI Protocol Storage
- Modular&Cableless Design
- Redundant Power

PRODUCT OVERVIEW

Product	Description	Entrance & Exit	Parking Guidance	Car Locating	Parking Management
DHI-ITC237-PW1B-IRZ	2 Megapixel Full HD Access ANPR Camera	•			
DHI-VTO2000A	Outdoor Video Intercom	٠			
DHI-IPMECD Series	Digital Barrier	•			
DHI-IPMECP Series	Outdoor LED multilayer info screen	٠			
DHI-IPMPGI-2x1AA Series	Outdoor LED Screen	•			
DHI-ITC314-PH2A	3Mega Parking Space Detection Camera (Single-Len)		•		
DHI-ITC314-PH2A-TF2	3Mega Parking Space Detection Camera (Dual-Lens)		•		
DHI-IPMPGI-AC	Indoor LED Guidance Screen		•		
DHI-IPMPGS-221A	Car Locating Kiosk			•	
DHI-PMS	Professional Parking Management System				•
DH-EVS7024S-R	24-HDD Enterprise Video Storage				•



SUCCESS CASE



Czech Republic Shopping Mall

Large commercial shopping mall. Dahua parking manage- ment solution offers diversified services. Parking guidance system helps customers find available parking spaces quickly, find my car system ensures the vehicle can be found, provide first class user experience and management efficiency.

- 1200 parking spaces
- 400 detection cameras, 25 guidance screens, 1 car locating kiosks



Commercial Building of Mongolia

Complex commercial building in Ulan Bator, includes banks, restaurants and retails. Dahua parking management solution has promoted the efficiency of entrance & exit. Parking guidance and car locating system let the customers have a better parking experience. Custom-made charge rules of parking fee improve the management level of parking lot. • 500 parking spaces

• 120 detection cameras, 4 ANPR cameras, 8 guidance screens



Serbia Residence Community

High-end residential area, Dahua parking management solution offer Entrance & Exit control and private space management (VIP Management). System control Entrance & Exit by ANPR white list. Provide 24*7hours video record in the parking.

- 400 parking spaces, 4 Entrance & Exit.
- 115 detection cameras, 4 access ANPR cameras and VTOs

ENABLING A SAFER SOCIETY AND SMARTER LIVING

Dahua Mexico Tel: +52 55 67231936 Email: sales.mx@global.dahuatech.com

Dahua Brazil Tel: +55 11 32511871 Email: comercial.br@global.dahuatech.com

Dahua Thailand Tel: +66 29382674 Email: info.th@global.dahuatech.com hr.th@global.dahuatech.com

Dahua S.Korea Tel: +82 7081618889 Email: DH-KOREA@global.dahuatech.com

Dahua Singapore Tel: +65 65380952 Email: info.sg@global.dahuatech.com

Dahua Turkey Email: sales.tr@global.dahuatech.com

Dahua Indonesia Email: support.id@global.dahuatech.com sales.id@global.dahuatech.com Dahua Malaysia Tel: +60376620731 Email: sales.mas@global.dahuatech.com

Dahua India Tel: +91 1244569100 Email: sales.india@global.dahuatech.com

Dahua Russia Tel: +7 (499) 682-60-00 Email: info@global.dahuatech.com

Dahua Kazakhstan Tel: +7 727 3110838

Dahua UK Tel: +44(0)1628 673 667 Email: sales.UK@global.dahuatech.com

Dahua Europe Tel: +31 797999696

Dahua France Email: sales.france@global.dahuatech.com Dahua Iberia Tel: +34 917649862 Email: sales.iberia@global.dahuatech.com

Dahua Italy Tel: +39 3703446609 Email: sales.italy@global.dahuatech.com

Dahua Germany Email: sales.de@global.dahuatech.com

Dahua CEE & Nordic Tel: +48 223957400 Email: biuro.pl@global.dahuatech.com

Dahua S. Africa Email: Dahua.sa@global.dahuatech.com

Dahua Australia Tel: +61 299285200 Email: sales.oc@global.dahuatech.com

Dahua Middle East Tel: +971 48815300 Email: sales.me@global.dahuatech.com

* Design and specifications are subject to change without notice.

回答这回 DAHUA TECHNOLOGY



No.1199 Bin'an Road, Binjiang District, Hangzhou, China. 310053 Tel: +86-571-87688883 Fax: +86-571-87688815 Email: overseas@dahuatech.com www.dahuasecurity.com Smart Parking Management Solution - 02, Mar 2018

