

# Parking Management Solutions

Get in, park fast, get on with your day



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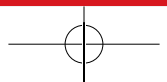


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**HIKVISION**

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# Solution Overview

HIKVISION®



**Entrance & Exit Management**



**Parking Payment Management**



**Indoor Parking Guidance**



**On-Street Parking Guidance**



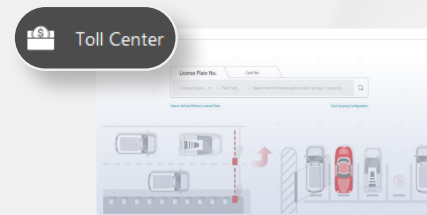
**Open-air Parking Guidance**



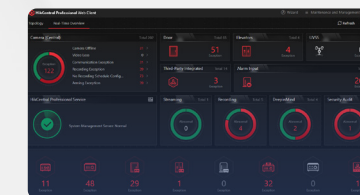
Parking Lot Management



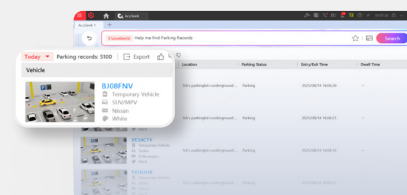
Dashboard Analytics



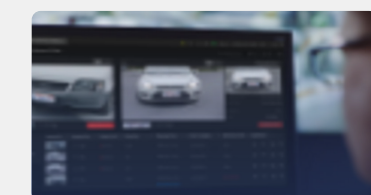
Parking Billing Management



Maintenance Management



Vehicle Data Management\*



Operations Management  
Customer & Business Services



\* AcuSeek is an intelligent search solution powered by large-scale AI models for vehicle information and records.

# Entrance & Exit Management

Seamless and secure access control for vehicles



Efficient license plate recognition and passage recording



Vehicle authentication and entry/exit rule management



Smooth, quiet and precise vehicle access control

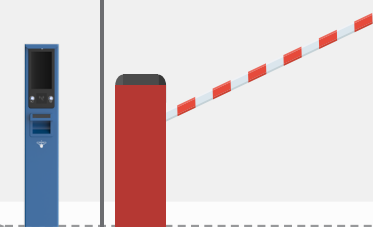


Centralized records retrieval and fee management

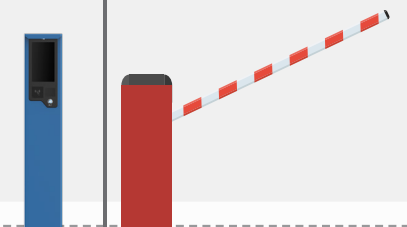
Three recognition methods can be flexibly combined to suit different scenarios.



Entrance



Exit



## License plate-based access control

License plate recognition, vehicle information capture and recording

## Card-based access control

UHF Card recognition, access for authorized users only

## Ticket-based access control

Get Tickets through entrance controller for **temporary guests'** vehicle access

## Self-service payment

**Self-payment by cash and coins**  
Supports integration with third-party software, POS systems, and apps

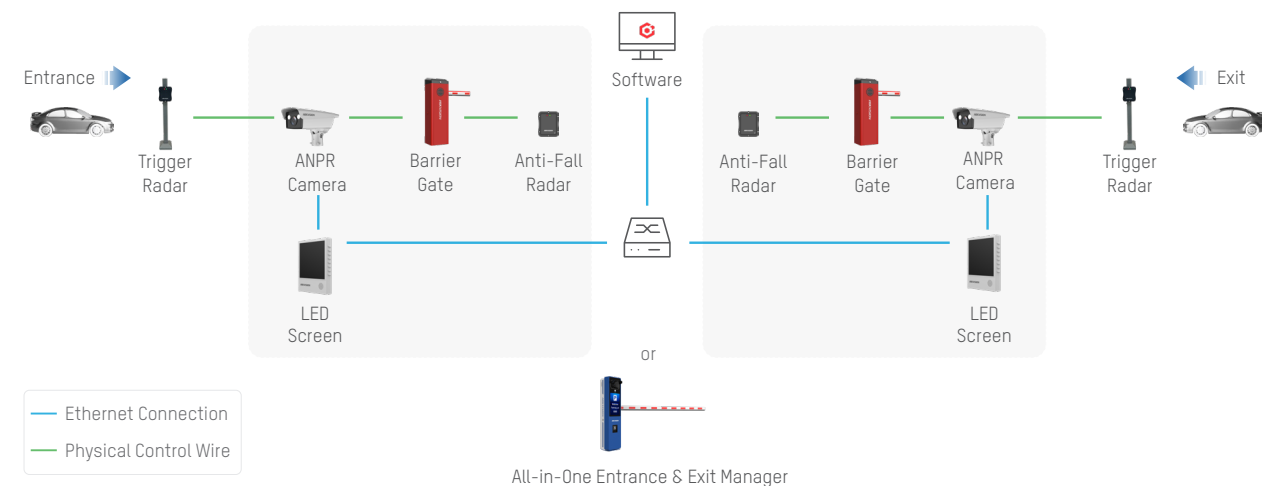
# ANPR-Based Vehicle Access Control Management

This system provides convenient, ticket-free vehicle access control that supports members, visitors, and different user types. It maintains complete vehicle access records with license plate numbers and displays space availability in real-time. The unified HCP management system offers integrated reporting for streamlined operations.

## Highlights



## System Topology



## Recommend Products

|                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ANPR Camera</b><br><br><b>DS-TC6405-E(S)</b> <ul style="list-style-type: none"><li>Recognition range: 3 m to 5 m</li><li>License plate recognition</li><li>Supports up to 100,000 allowlist/blocklist entries</li><li>Installed in front of the barrier gate</li></ul> | <b>GMOS Access ANPR Camera</b><br><br><b>DS-TMC403-EL</b> <ul style="list-style-type: none"><li>Built-in GMOS sensor</li><li>Recognition range: 1.5 m to 12 m</li><li>License plate recognition</li><li>Supports up to 100,000 allowlist/blocklist entries</li><li>Installed behind the barrier gate</li></ul> | <b>Barrier Gate</b><br><br><b>DS-TM652X series</b> <ul style="list-style-type: none"><li>Rising and falling speed up to 0.9s(@3m)</li><li>Durability: 5 million cycles (MCBF)</li><li>Fluid operation with DC brushless motor</li><li>Flexible direction switching</li></ul> | <b>All-in-One Entrance &amp; Exit Manager</b><br><br><b>DS-TMC407 Series</b> <ul style="list-style-type: none"><li>All-in-one design</li><li>Components: ANPR camera, supplement light, barrier gate, anti-fall radar and LCD display</li><li>Display: images, videos, advertisements</li></ul> |
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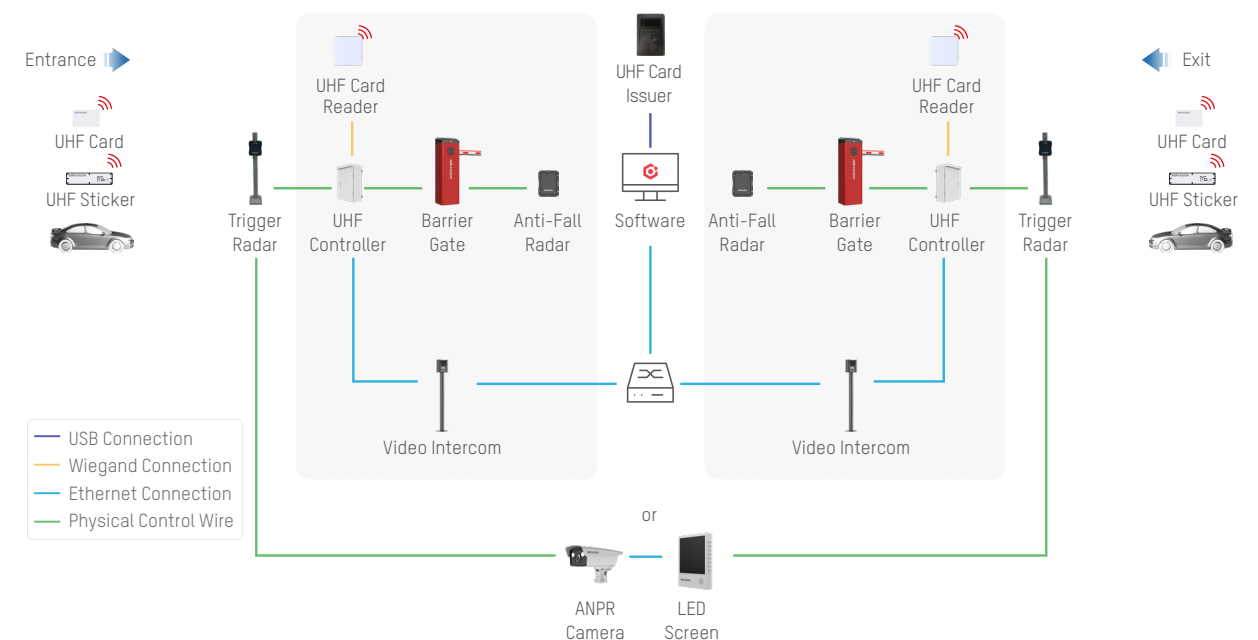
# Card-Based Vehicle Access Control Management

The card-based system ensures reliable, convenient, contactless access via UHF cards and stickers, supporting both registered and temporary vehicle management. It integrates UHF cards, IC cards, and optional license plate cameras under the unified HCP system with integrated data reporting for streamlined operations.

## Highlights



## System Topology



## Recommend Products

|                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UHF System</b><br><ul style="list-style-type: none"><li>UHF card reader: DS-TRI900-1/A</li><li>UHF card issuer: DS-TRD902-1/A</li><li>UHF card: DS-TRC902-1/A</li><li>UHF sticker: DS-TRC900-8/A</li><li>Operating frequency: 840 to 960 MHz</li></ul> | <b>UHF Controller</b><br><br><b>DS-TME200-D/P</b> <ul style="list-style-type: none"><li>Vehicle lanes: Max. 4</li><li>50,000 card records and 50,000 card swiping records</li><li>Support card information storage, barrier gate control, etc.</li></ul> | <b>Barrier Gate</b><br><br><b>DS-TM652X series</b> <ul style="list-style-type: none"><li>Rising and falling speed up to 0.9s(@3m)</li><li>Durability: 5 million cycles (MCBF)</li><li>Fluid operation with DC brushless motor</li><li>Flexible direction switching</li></ul> | <b>Entrance &amp; Exit Radar</b><br><br><b>DS-TMG034 series</b> <ul style="list-style-type: none"><li>Trigger radar: detects vehicles and triggers camera capture/recognition</li><li>Anti-fall radar: detects vehicles to prevent gate from closing on them</li></ul> |
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# Parking Payment Management

Flexible payment options for different user permissions

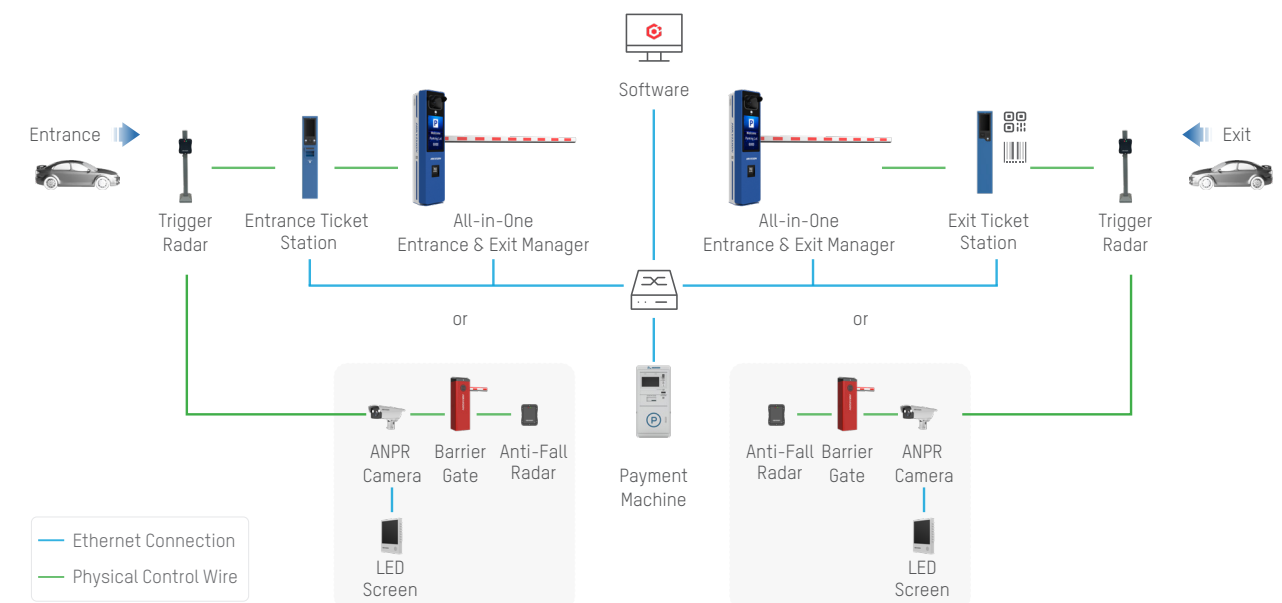
## Convenient Self-Service Payment

This solution offers flexible parking fees for registered, temporary, and visitor vehicles with payment options like exit booths, prepay stations, and account deductions. It offers customizable billing and discount rules, payment record searches, and reports. The centralized platform manages billing rules and visual revenue data to improve analysis and minimize losses.

### Highlights

- Contactless Card Recognition
- Enhanced Security through Authorization Management
- Stable Recognition for Efficient Traffic Flow
- Convenient Centralized Management

### System Topology



### Recommend Products

- | All-in-One Entrance & Exit Manager                                                                                                                                                                                                                                                                                                  | Entrance & Exit Controller                                                                                                                                                                                                                                                                                    | Payment Machine                                                                                                                                                                                                                                                                                                                                  | Entrance & Exit Radar                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>DS-TMC407 Series</b> <ul style="list-style-type: none"><li>All-in-one design</li><li>Components: ANPR camera, supplement light, barrier gate, anti-fall radar and LCD display</li><li>Display: images, videos, advertisements</li></ul> | <br><b>DS-TMT201-D DS-TMT202-D</b> <ul style="list-style-type: none"><li>Entrance: built-in printer, card reader, LCD screen</li><li>Exit: built-in card reader and LCD screen</li><li>Operation system: Linux</li></ul> | <br><b>DS-TPP427</b> <ul style="list-style-type: none"><li>18.5-inch LCD touchscreen</li><li>Payment methods: POS/cash</li><li>Built-in bill and coin module</li><li>Optional PAX IM30 POS Terminal</li><li>Scanning: barcode and QR code support</li></ul> | <br><b>DS-TMG034 series</b> <ul style="list-style-type: none"><li>Trigger radar: detects vehicles and triggers camera capture/recognition</li><li>Anti-fall radar: detects vehicles to prevent gate from closing on them</li></ul> |

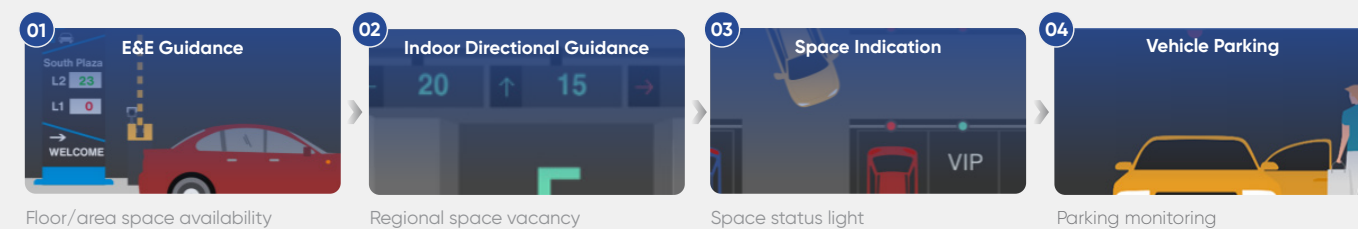
# Indoor Parking Guidance

Park faster, park smarter



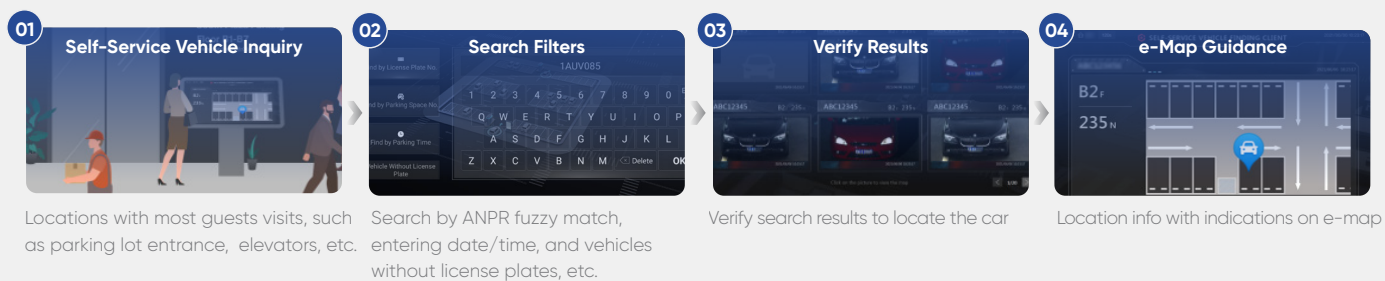
## Drivers Arrival:

Quickly find vacant parking space



## Drivers Departure:

Quickly find vehicle parking location



# ANPR-Based Parking Guidance and Car Finding

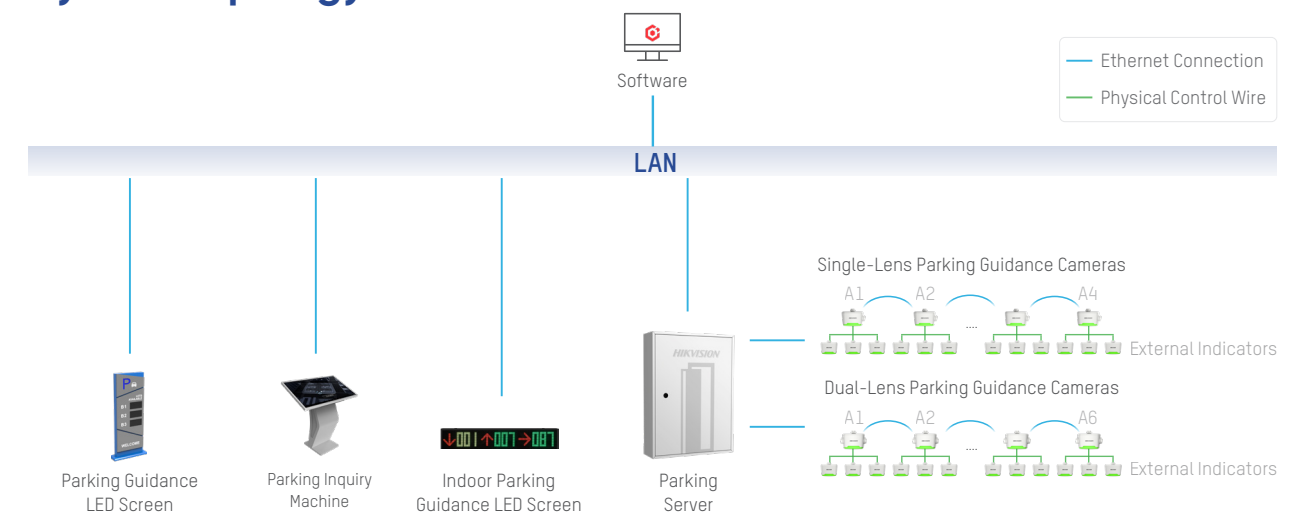
HIKVISION

The system displays real-time space availability and directions by area or space type while enabling remote parking lot management through e-maps and video verification. It maintains video-based parking records searchable by space or license plate and supports registered, reserved, and special parking spaces. The platform provides detailed parking management with various space types, reserved space configuration, and alerts for wrong parking or overtime violations.

## Highlights

- Real-Time Parking Space Status Detection
- Available Space Guidance and Anti-Occupation Alerts
- Self-Service Car Location Services
- Centralized Parking Management

## System Topology



## Recommend Products

| Parking Guidance Camera                                                                                                                                                                                                                                                                                               | Parking Server                                                                                                                                                                                                                                                                    | Parking Inquiry Machine                                                                                                                                                                                                                                                                                                              | Parking Guidance LED Screen                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>DS-TCP440-DB (E)</b> X=1,4</p> <ul style="list-style-type: none"> <li>Coverage: 1-6 parking spaces</li> <li>License plate recognition(ANPR), space status detection, line crossing analysis, motion detection, etc.</li> <li>Six-color LED indicator</li> <li>Hand-in-hand communication via Hik-PoE</li> </ul> | <p><b>DS-TPM400-FP</b></p> <ul style="list-style-type: none"> <li>Embedded Linux operation system</li> <li>Access up to 32 nearby cameras</li> <li>Supports Hik-PoE power supply for parking guidance cameras</li> <li>Storage: image and video recording, up to 24 TB</li> </ul> | <p><b>DS-TPW332-C</b></p> <ul style="list-style-type: none"> <li>Operating system: Android 14</li> <li>31.5-inch LCD touchscreen</li> <li>Built-in HCP self-service vehicle finding client</li> <li>Parking location inquiry with e-map guidance</li> <li>The bracket is sold separately, model DS-TPW001-1 (K-type base)</li> </ul> | <p><b>DS-TVL131-X-7P</b> X=3,6,9<br/><b>DS-TVB200</b> (X modules) X=1,2,3,4,5,6,7,8</p> <ul style="list-style-type: none"> <li>DS-TVL131 series: P7 pixel pitch</li> <li>DS-TVB200 series: P10 pixel pitch</li> <li>District information display and parking guidance</li> </ul> |

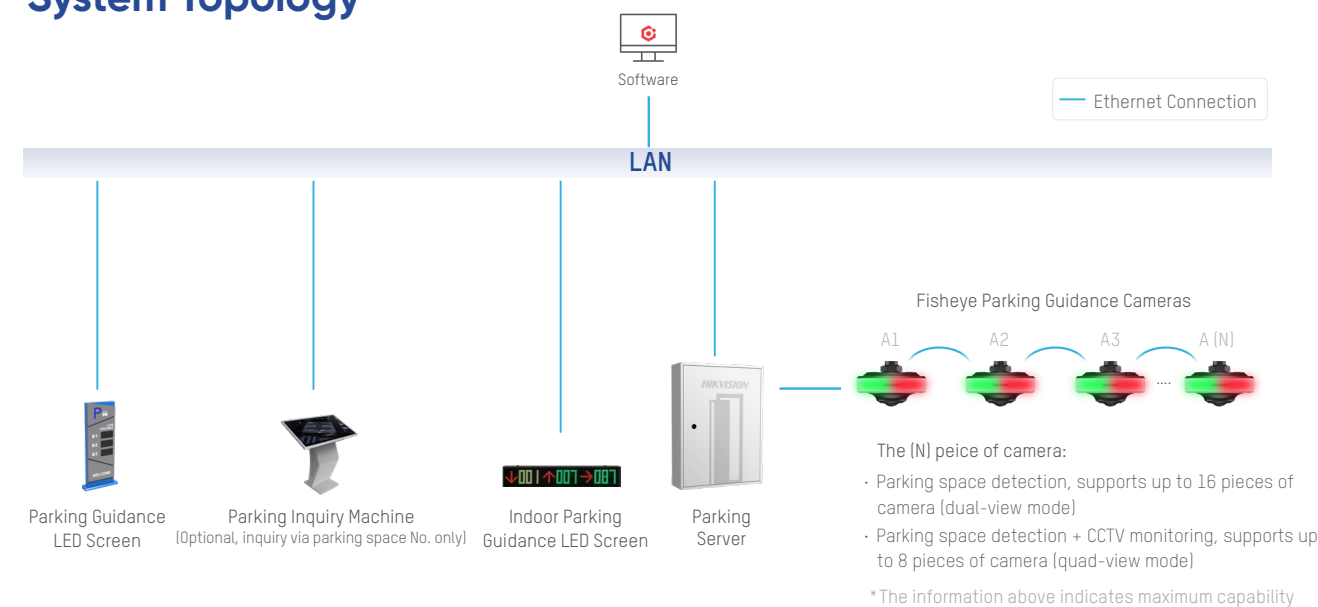
# Video-Based Parking Guidance

This solution uses built-in deep learning algorithms for parking space detection with motion detection and smart analysis features. It provides high-definition imaging with excellent low-light performance and vivid colors, displaying real-time space availability and directional guidance organized by area or space type.

## Highlights

- Ultra-Wide-Angle Panoramic Monitoring
- Parking Space Status Detection and Guidance
- Multi-Scenario Adaptability
- Centralized Parking Management

## System Topology



## Recommend Products

| Fisheye Parking Guidance Camera                                                                                                                                                                                                                                                                         | Parking Server                                                                                                                                                                                                                                                                                           | Indoor Parking Guidance LED Screen                                                                                                                                                                                                                                | Parking Guidance LED Screen                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>DS-TCPX06-EP</b> X=5,C<br>· Supports up to 16 parking spaces status detection<br>· Standalone dual indicator lights on one camera<br>· 360° ultra-wide-angle lens<br>· Hand-in-hand communication via Hik-PoE | <br><b>DS-TPM400-FP</b><br>· Embedded Linux operation system<br>· Access up to 32 nearby cameras<br>· Supports Hik-PoE power supply for parking guidance cameras<br>· Storage: image and video recording, up to 24 TB | <br><b>DS-TVL131-X-7P</b> X=3,6,9<br>· P7 pixel pitch<br>· Support 7 colors<br>· District information display and parking guidance<br>· Ceiling-mounted with built-in brackets | <br><b>DS-TVB200 (X modules)</b> X=1,2,3,4,5,6,7,8<br>· P10 pixel pitch<br>· Displays total and district-specific available spaces |

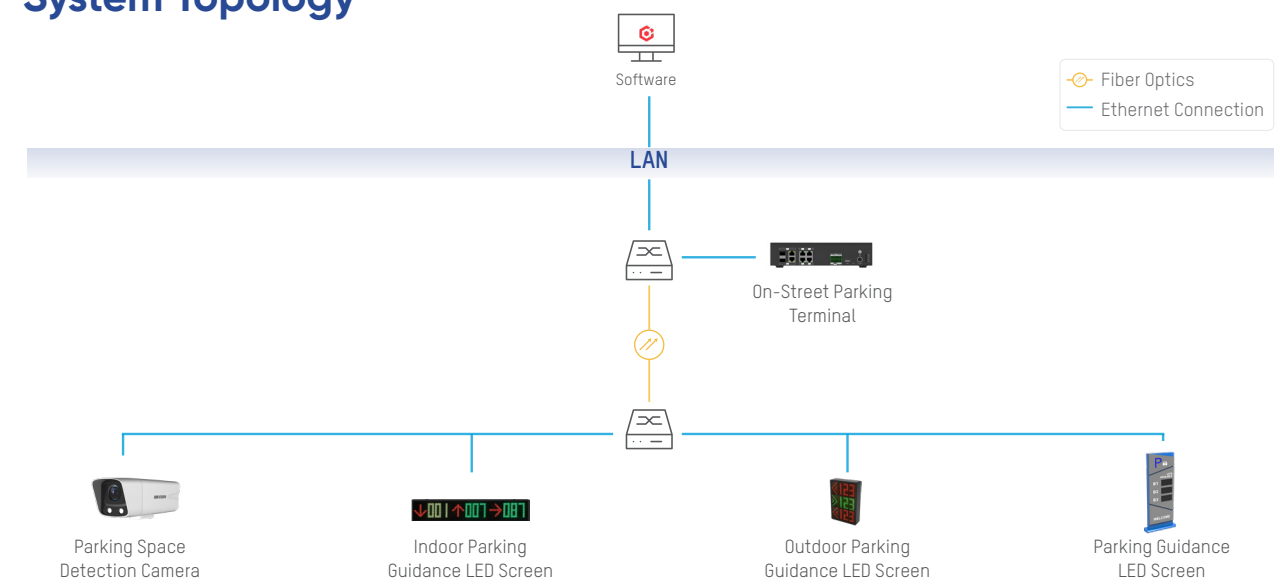
# Multi-Floor Parking Space Counting

The system provides designated area parking space counting and available space displays using visual multi-floor zone-based counting. This approach eliminates counting errors from floor transitions found in traditional solutions, ensuring precise parking space management across multiple levels.

## Highlights

- Real-Time Multi-Floor Monitoring
- Smart Available Space Guidance
- Reduced Congestion and Wait Time
- Centralized Parking Management

## System Topology



## Recommend Products

| Parking Space Detection Camera                                                                                                                                                                               | Indoor Parking Guidance LED Screen                                                                                                                                                                                                                                  | Outdoor Parking Guidance LED Screen                                                                                                                                                                                             | Parking Guidance LED Screen                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>IDS-TCR204-E</b><br>· Parking space availability monitoring in designated areas, vehicle counting for entry/exit | <br><b>DS-TVL131-X-7P</b> X=3,6,9<br>· P7 pixel pitch<br>· Support 7 colors<br>· District information display and parking guidance<br>· Ceiling-mounted with built-in brackets | <br><b>DS-TVL22X-2-10P</b> X=1,2,3<br>· P10 pixel pitch<br>· Support 3 colors<br>· Outdoor parking guidance and space availability display | <br><b>DS-TVB200 (X modules)</b> X=1,2,3,4,5,6,7,8<br>· P10 pixel pitch<br>· Displays total and district-specific available spaces |

# On-Street Parking Guidance

Simplify urban parking for hassle-free street stops

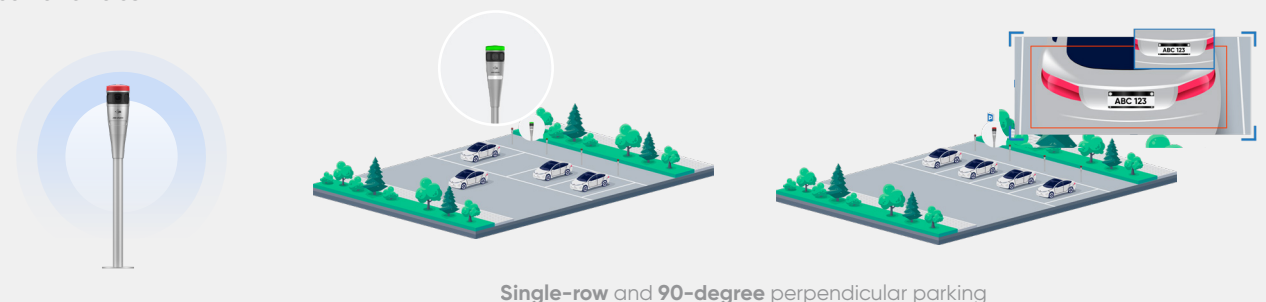
## On-Street Parking ANPR Bullet Camera

Using advanced image recognition to deliver accurate parking information, reduce manual work, and enhance drivers' self-service experience. Video records capture license plates, entry/exit times, images, and videos—greatly improving parking efficiency.



## On-Street ANPR Pole

Combined with a bullet camera, it covers blind spots and supports vehicle entry/exit detection through license plate recognition. It distinguishes electric vehicles by plate color and connects with parking locks to manage spaces reserved for electric vehicles.



# ANPR-Based On-Street Parking Guidance

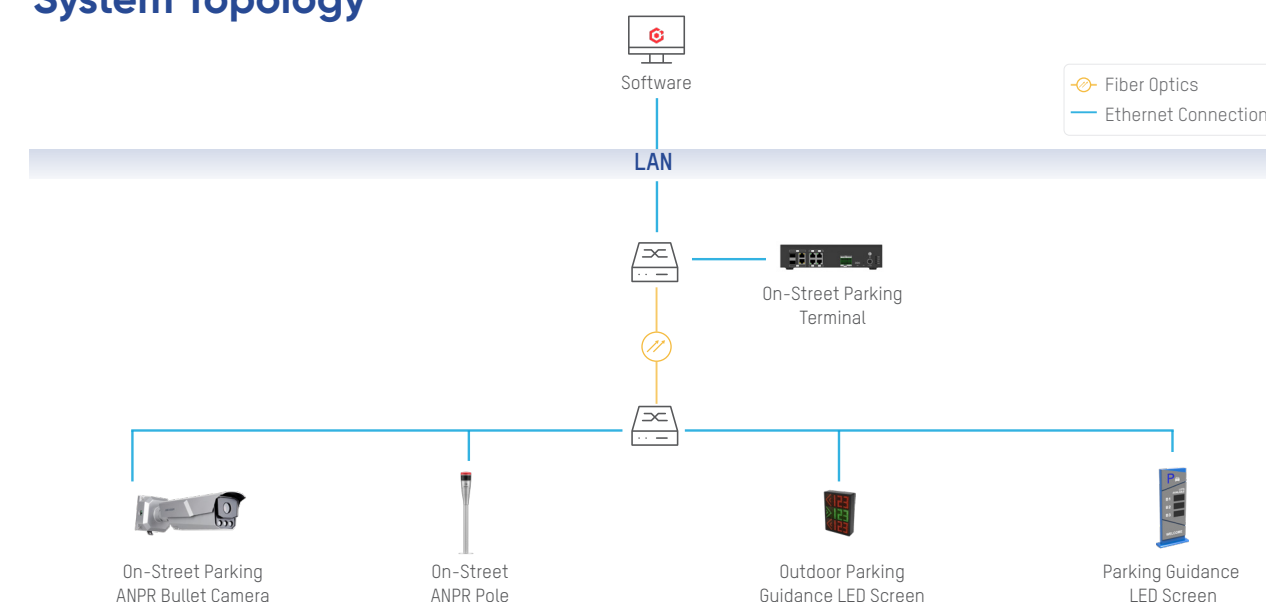
HIKVISION

This solution improves parking efficiency and user experience through visual guidance and vehicle location services. It records parking time, license plates, space numbers, and vehicle occupancy data, uploading everything to the HikCentral Professional platform. The system manages overtime parking using data-driven traffic and space statistics while providing comprehensive parking management with real-time monitoring, incident video evidence, and detailed reporting.

## Highlights

- Smart License Plate Recognition
- Complete Parking Process Video Recording
- Real-Time Parking Space Monitoring and Guidance
- Centralized Parking Management

## System Topology



## Recommend Products

| On-Street Parking ANPR Bullet Camera                                                                                                                                                                                                                                                                                                                                  | On-Street ANPR Pole                                                                                                                                                                                                                                                                                                                                                                                                | Outdoor Parking Guidance LED Screen                                                                                                                                                                                                                                                      | Parking Guidance LED Screen                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>IDS-TCR803-G</b></p> <ul style="list-style-type: none"> <li>Coverage: 4 parking spaces</li> <li>Complete parking process recording and automatic license plate recognition (ANPR)</li> <li>Applications: single-row, double-row, and 90° perpendicular parking</li> </ul> |  <p><b>DS-TCL400-E</b></p> <ul style="list-style-type: none"> <li>Coverage: 1 parking space</li> <li>Complete parking process recording and automatic license plate recognition (ANPR)</li> <li>Supports configuration of 6 indicator light colors</li> <li>Applications: single-row and 90° perpendicular parking</li> </ul> |  <p><b>DS-TVL22X-2-10P</b> X=1,2,3</p> <ul style="list-style-type: none"> <li>P10 pixel pitch</li> <li>Support 3 colors</li> <li>Outdoor parking guidance and space availability display</li> </ul> |  <p><b>DS-TV200 (X modules)</b> X=1,2,3,4,5,6,7,8</p> <ul style="list-style-type: none"> <li>P10 pixel pitch</li> <li>Displays total and district-specific available spaces</li> </ul> |



# Open-Air Parking Guidance

Simplify urban parking for hassle-free street stops

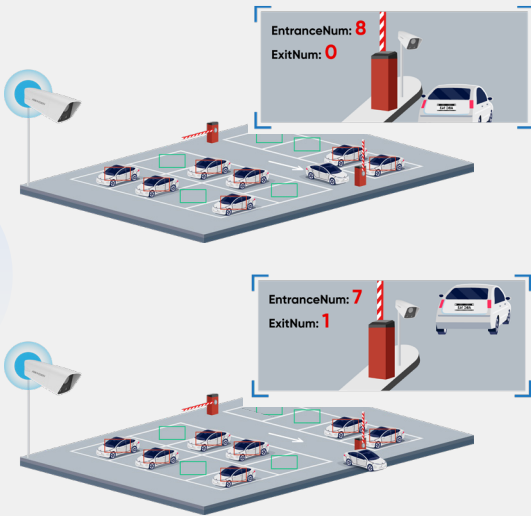
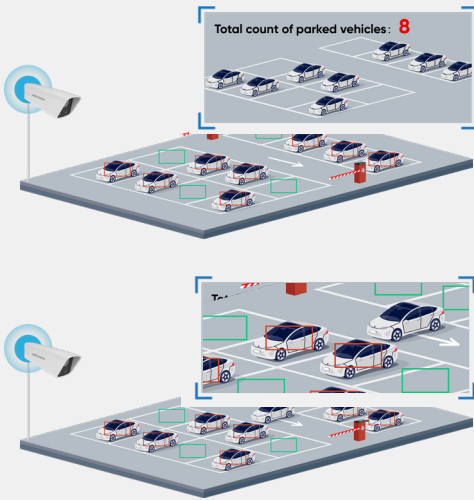
## Parking Space Detection Camera

High-mounted installation in parking lots

- Real-time detection of parking space status
- Dynamic display of space availability
- Comprehensive parking lot monitoring

Entrance and exit installation

- Vehicle entry/exit counting
- Real-time passage recording



# Parking Space Status Detection and Display

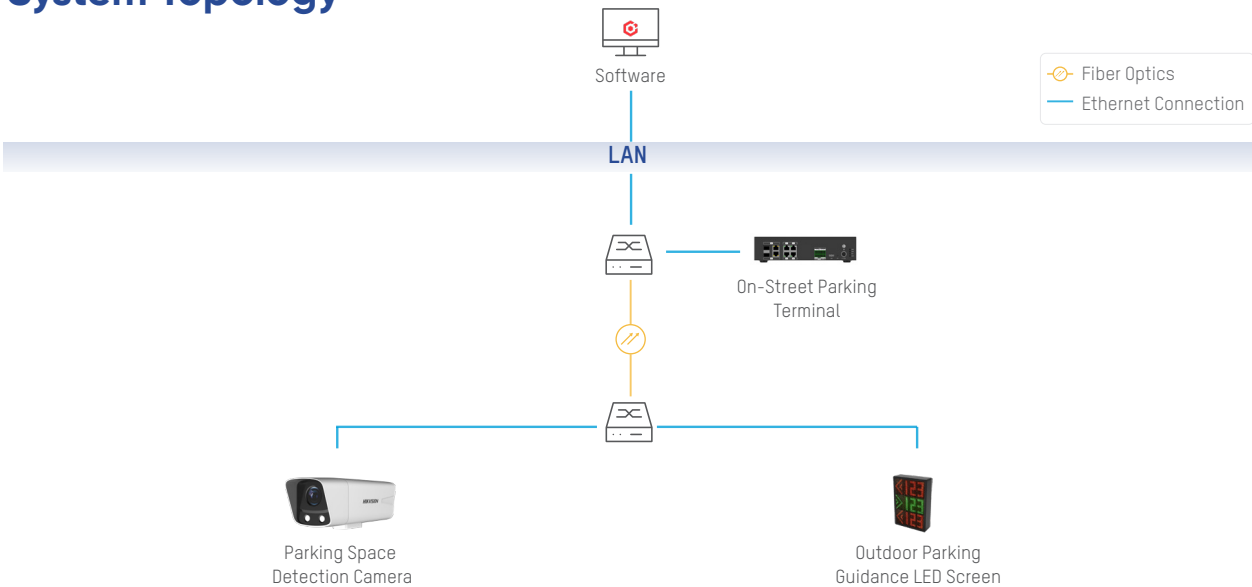
HIKVISION

The system offers two detection methods for different scenarios: parking lot space status detection and display, and entry/exit vehicle counting. It detects parking space availability and records all information, uploading the data to the HikCentral Professional platform for comprehensive management and analysis.

## Highlights

- Vehicle Entry/Exit Counting with Direction Detection
- Parking Space Status Detection and Display
- Real-Time Video Monitoring Management
- Centralized Parking Management

## System Topology



## Recommend Products

### Parking Space Detection Camera



IDS-TCR204-E

- Coverage: recommended for 15 parking spaces (actual detection may vary by installation conditions)
- Parking space availability monitoring in designated areas, vehicle counting for entry/exit

### Outdoor Parking Guidance LED Screen



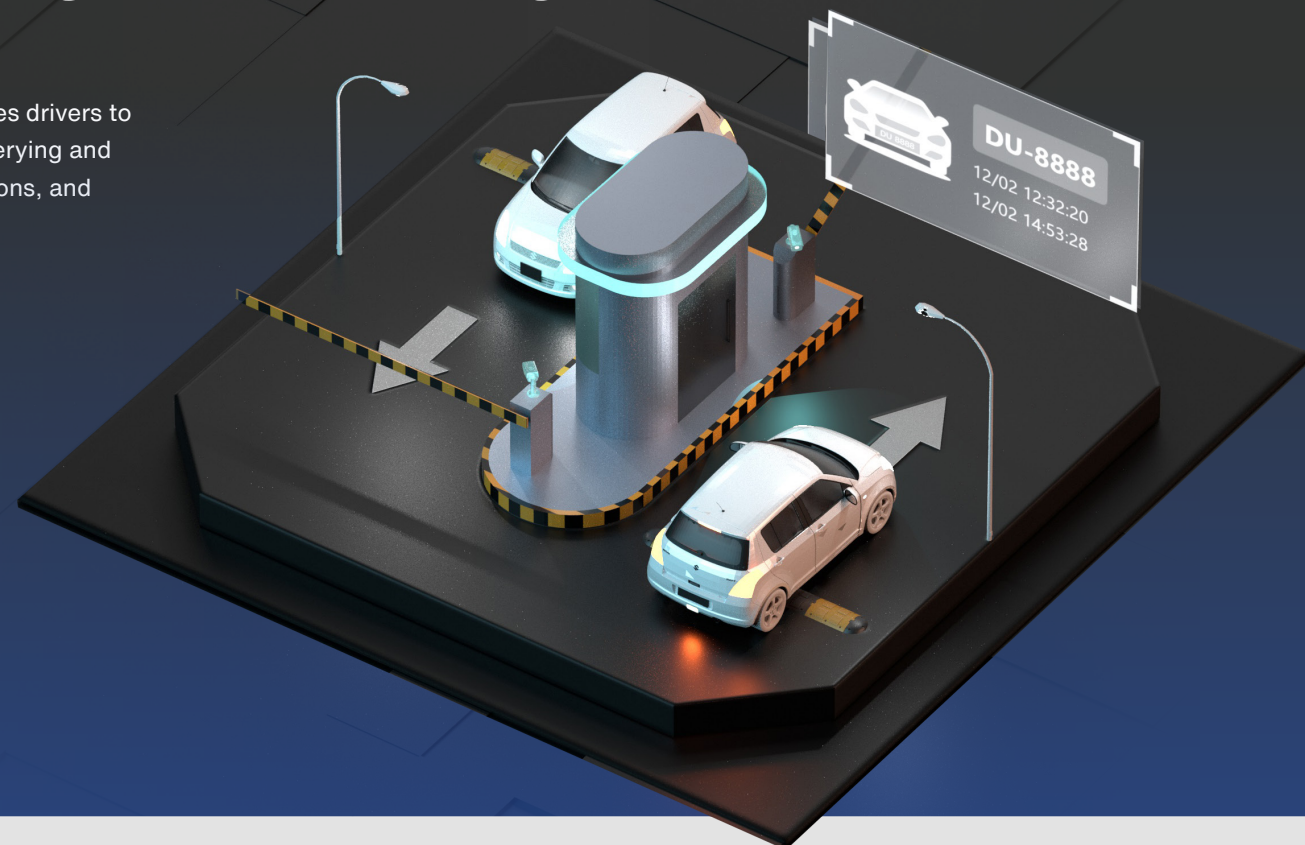
DS-TVL22X-2-10P X=1,2,3

- P10 pixel pitch
- Support 3 colors
- Outdoor parking guidance and space availability display



# HikCentral Professional Parking Lot Management

The HCP-powered parking solution guides drivers to available spaces quickly, streamlines querying and billing processes, helps optimize operations, and provides additional security layers.

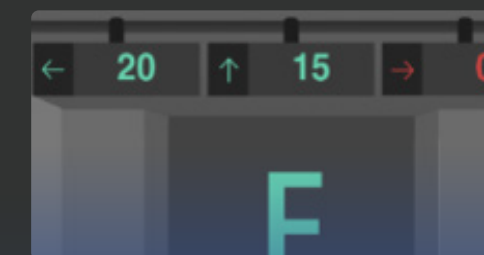


HIKVISION®



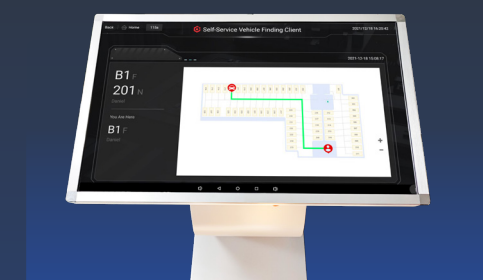
## Entry & Exit Management

ANPR-enabled non-stop passage with flexible access rules for enhanced traffic efficiency and security



## Parking Guidance

Help drivers quickly find vacant spaces with guidance screens and parking cameras in both indoor and outdoor lots



## Parking Query and Charging

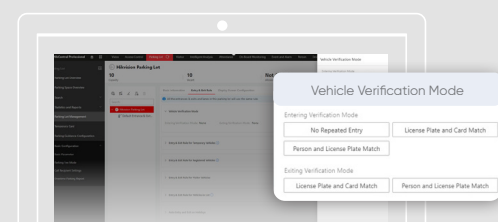
Self-service parking queries and multiple billing options further improve customer experience



## Operation Analysis

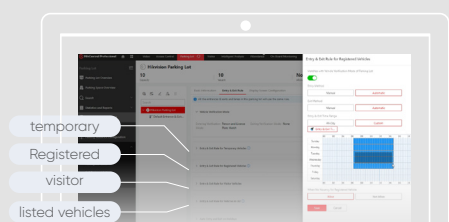
Help management analyze operations, income, and expenses with comprehensive operational and transaction data

## HikCentral Professional Parking Lot Management Overview



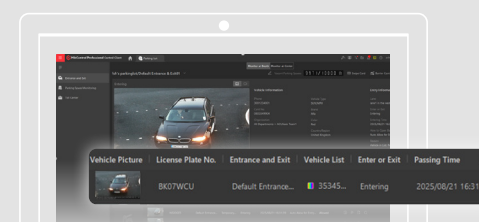
### Vehicle Authentication

Multiple authentication options for different scenarios



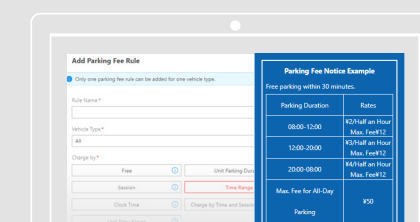
### Entry & Exit Rules

Flexible vehicle entry/exit management for permissions, vehicle types, etc.



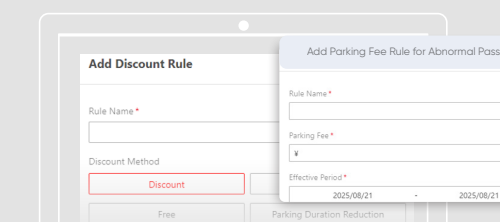
### Vehicle Records

Vehicle record queries using license plates, dates, times, etc. for efficient management



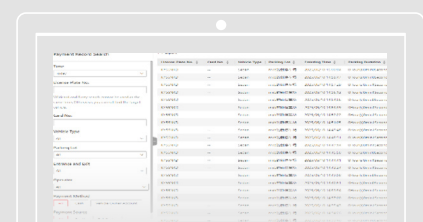
### Parking Fee Management

Flexible billing methods: per session, hourly, time-based periods, with maximum charge limits



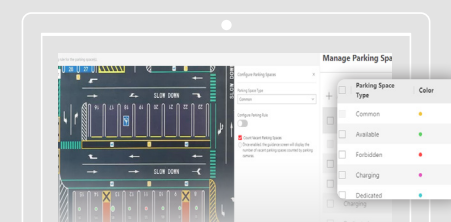
### Differentiated Discount Rules

Support for percentage discounts, amount discounts, time period discounts (entry/exit deduction), and full exemptions



### Payment Record Search

Search payment records, coupon usage, account top-ups, and shift handover records



### Parking Lot Management

Support for parking space management across floors and different space type configurations



### Self-Service Car Finding and Route Guidance

Support for fuzzy license plate, parking space, and entry time searches to locate vehicles with route planning guidance



### Parking Space Monitoring

Support for parking space status and video monitoring, abnormal space status display (overtime parking, wrong parking), etc.