



SUBSCRIPTION BASED WITH
ANPR
TICKET DISPENSER
TICKET READER
INFORMATION DISPLAYS
PARKING SPOT SIGNS

OPEN PARK

Integrated parking and ticketing system



OPEN PARK OpenPark is an integrated Parking Management, tolling and vehicle access solution. It integrates several

sensors according to customer site needs including ANPR cameras, RFID readers, Barcode ticket dispenser and reader using secure QR-Code. It also includes a complete POS system, shift management, cash accounting and collection, ticket printing manually and through ticket dispenser and mobile application.

Every vehicle entry/exit record is documented with a snapshot and or Video clip with time stamp, relevant ticket or RFID card data used in the event.

Automatic Number
Plate Recognition
that works
worldwide

Free subscription
lane, ticket
dispenser for non-
members, ticket
readers, e-payment
with NFC

Centralized
management can
work with unlimited
number of entry and
exit lanes

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KEY FEATURES

- Automated vehicle entry of cars with registered license plates or using RFID tag whether short range or long range.
- Automatic gate control with option to manually open gate from the controller web interface.
- Full auditing trail of all vehicles; keeping records of entry and exit times of each vehicle, storing all incoming/outgoing car images, plate numbers, tag reads, and time stamps, keeping records of traffic, and each payment made.
- Blacklisted vehicle alarm, warning when an unwanted car appears at the gate.
- User and administrator access rights.
- Unlimited number of gates can be managed from one central server over TCP/IP
- Multi-language Graphical User Interface (GUI) in a customizable layout.
- ANPR engine supports all EU countries and Middle East Arabic plates including Egypt with on-going support and continuous updates.
- Open integration for any third-party software or management system.

MAIN BENEFITS

- Faster vehicle entry/exit
- Providing safer and more secure car parking areas, reducing crime
- Providing statistical analysis and parking revenue calculations through advanced reporting capabilities
- Easy installation architecture, plug & play
- Centralizing registration through web-based portal allowing for self-service subscription and online payment.
- Allows for integration of ANPR with prepaid cards via NFC, barcode ticket printing as well as manual payment.
- Simplifying registration of all vehicles for security purpose.
- Easy setup of temporary access to guest vehicles and availability of online registration of visitors.
- The Mobile POS interface will allow for fast exit especially if the plate number was not correctly read at the entry gate. It will also allow for in parking inventory for cars spending the night at the parking lot or staying at unauthorized locations.

Web dashboard and management server

Basic functionality

Automated gate control: number plate is read when a vehicle arrives to the checkpoint number plate is evaluated from database blacklist and whitelist management. It can be verified against any open interface external access control server.

In case of using barcode or RFID an entry station is used and snapshot triggering is driven by entry station.

Parking ticket support

The system offers a parking fee calculation when a vehicle leaves the area or as a flat rate at entry or exit

Parking membership support

Membership can be provided through RFID cards for long periods like month or more and also printed barcode tickets can be used for less periods like one week.

Number of gates

Each gate can have one LPR camera and one OpenPark face detection for entry / exit station. Unlimited gates can be connected to one central Open Park server.

Supported plate types

Number plate recognition for different countries and character types are supported: all Latin, Arabic. Customized high accuracy performance is guaranteed for Egypt license plates.

User management

Different user privileges can be set admin, operator, collector

Supported languages

Default interface language: Arabic, English and French.

Triggering

When an external device (e.g. loop or photocell or entry station) detects the arrival of a vehicle, it sends a signal through the camera to the system that executes the entire access control procedure

Permission management	Number plates can be categorized in Blacklist and whitelist. Warning is raised upon unauthorized activity and barrier is open in case of authorized vehicle.
Logging	Every event is archived in local MySQL database on the OpenPark entry station or inside the OpenPark camera. Every unrecognized plate will be stored with the time stamp and image in the local database. The operator will have a chance to correct the plate number manually.
Data export/import	csv import for Blacklists and whitelists, members database, pre-paid accounts
Architecture	OpenPark server runs on a central management server to control OpenPark entry stations connected over TCP/IP and management interfaces and Point of Sale are provided as web based applications that can run on thin client or any Windows, Apple or even Android device.
Administration	Web application for administration interface for creating different profiles for users, different locations, and different ticket types for each location. The admin interface can define pricing plans for each location based on time of the day and day of the week.
Payment support	Cashier interface support different payment types including cash, credit card and e-wallets using different accessories.
e-wallet	E-payment and e-wallet supported through international bank gateway; local e-wallets can be integrated through standard API
Open API	Integration with third party systems including ERP, CRM, and Access control systems through industry standard OPC server interface and open web API
Reporting module	Standard reports include event reports for parking entry and exit, ticket issuing, ticket reading and entry and exit and ticket payment and cash reports. Adhoc dynamic report generator included by using filters on the database through the dynamic report generator.
e-Commerce	Online portal for event registration and ticket sales that can be customized by end user according to event name, ticket prices, and includes direct selling and generation of QR code ticket to use at entry gates for parking and turnstiles. Ticket confirmation emails and optional SMS integration.
System parameterization	OpenPark server can operate any number of facilities (like parking lots, convention centers, gated communities, stadiums, cinemas, and for each facility the administrator can configure the entry and exit gates, configure zones inside each parking or area, configure the slots, the parking fees, membership fees
Member registration	Membership ID cards can be registered on the admin interface and can be based on RFID cards or QR codes, membership can be
OpenPark Mobile	Mobile App available for parking operator personnel to validate the tickets at entry and exit and can be used as mobile POS for selling the tickets

Order information: OP-SERV	Main server	OP-ACM	Access control Manager license
OP-LPR	License Plate recognition	OP-GC	OpenPark Gate controller (HW)
OP-VCA-1	Car Make and Model detection	OP-POS	OpenPark Point of Sales
OP-VCA-2	Face Plate detection	OP-MOB	OpenPark mobile application
OP-REDU	Redundancy manager license		



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