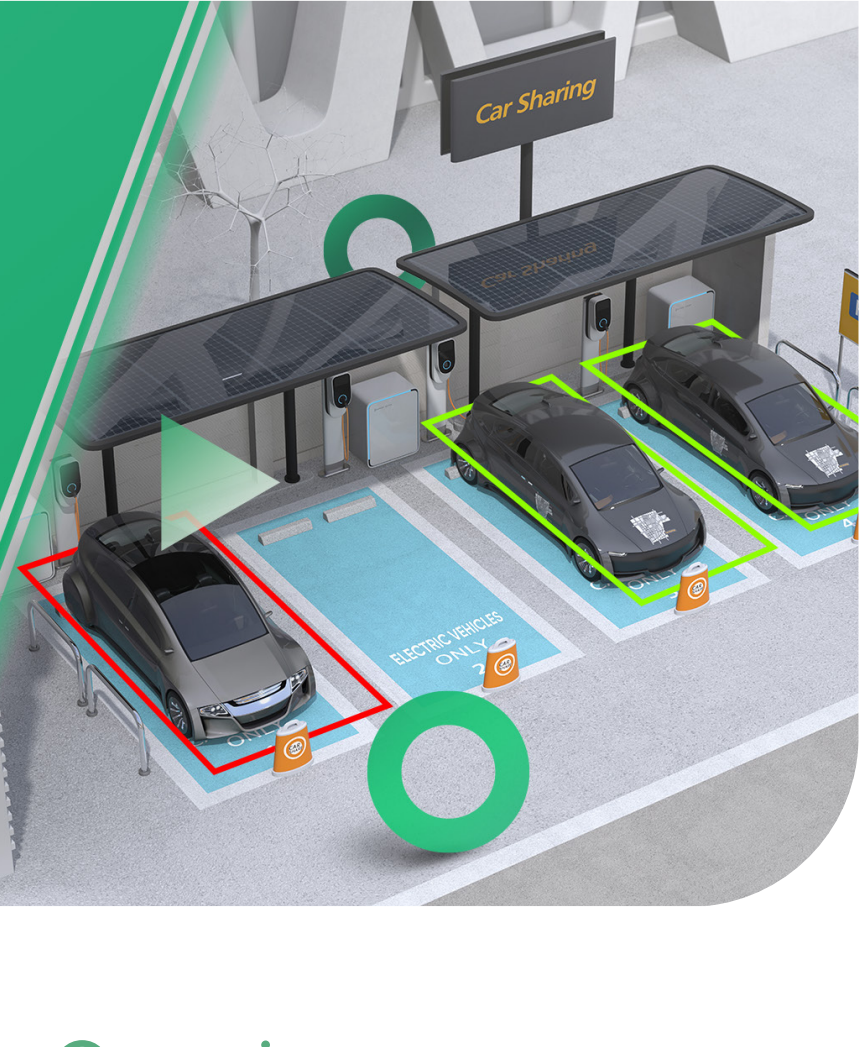
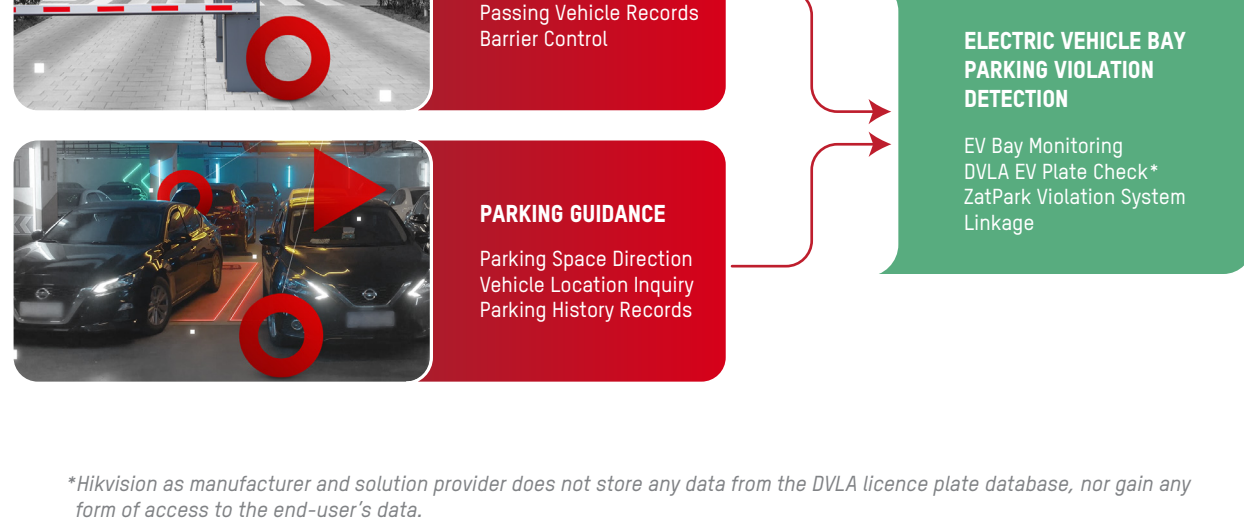


# ELECTRIC VEHICLE BAY

## Parking Violation Detection Solution



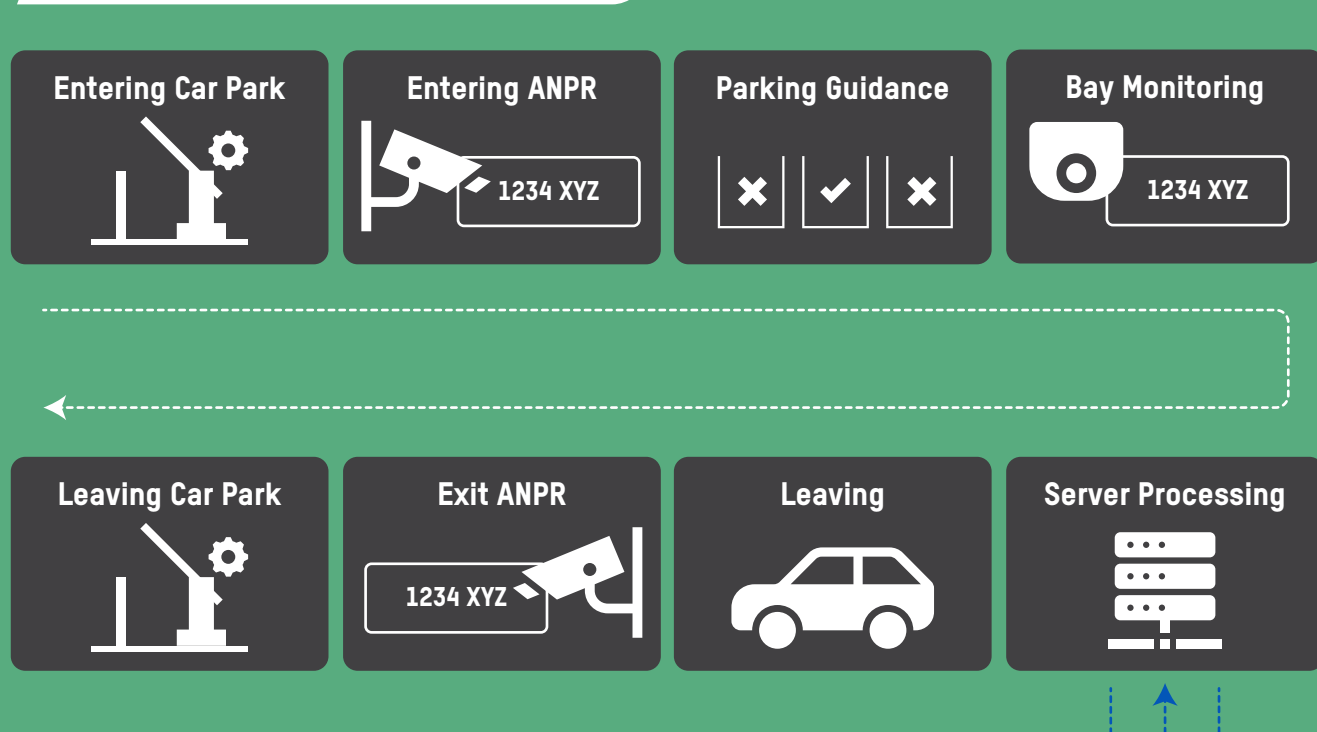
### Solution Overview



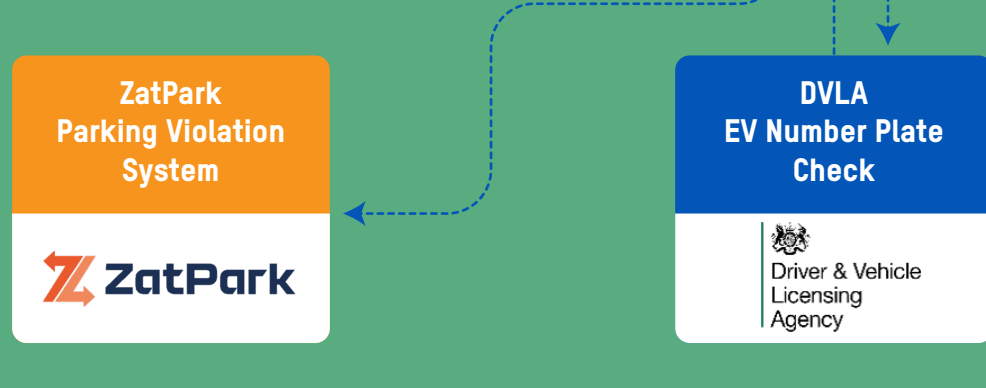
\*Hikvision as manufacturer and solution provider does not store any data from the DVLA licence plate database, nor gain any form of access to the end-user's data.

### Solution Workflow

#### HIKVISION Standard Workflow



#### 3rd PARTY Solution Highlights

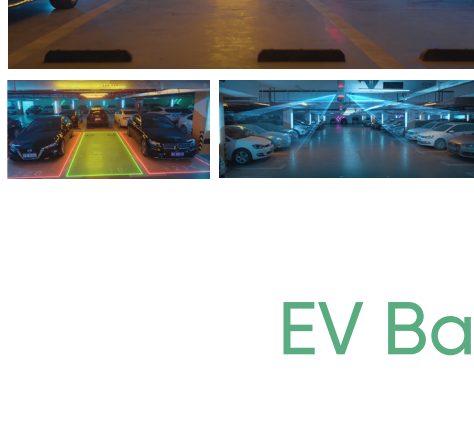


### Entrance & Exit



- ANPR licence plate detection at car park entrance
- Automatic barrier linkage for registered vehicles
- Control centre manual barrier operation for non-registered vehicles
- Entry and exit records search and reports
- Alarms for vehicles on a blacklist and barrier remains closed

### Parking Guidance



- Guidance camera with LED indicator
- Green for available bays and red for fully-occupied bays
- Up to 7 different LED colours, fully programmable
- ANPR licence plate detection upon parking and leaving the bay
- Visualised floor plan with parking records on each bay, including number plate, parking time and duration

### EV Bay Monitoring



- On HikCentral, guidance camera can be set to EV bay monitoring mode:
- The camera will pick up time and plate number when a vehicle parks in the bay
  - HikCentral will then compare the plate number to the DVLA database
  - If HikCentral find the vehicle is not registered as an EV, it will send a notification to ZatPark system with evidence
  - **The evidence includes the detection time, plate number and full picture of the vehicle in the bay**

### Parking Violation Handling

- Car park operator violation handling procedure:**
- A certain violation time period (such as 10 minutes) can be set by the operator
  - HikCentral will send a second evidence to ZatPark, if the same vehicle still stays in the bay over the violation period
  - **ZatPark will combine two pieces of evidence for the same vehicle of parking violation**
  - The operator can easily send out tickets with strong evidence

### Solution Benefits

- Accurate Vehicle Type Detection**
  - DVLA database will accurately detect non electric vehicles based on reported plate number. No need to hire operators to carry out patrol tasks and manually search for parking violations.
- Trackable Evidence and Reports**
  - Parking history will be logged on HikCentral server, ensuring manual search for all parked vehicles. Parking history can also be exported into a spreadsheet for further analysis.
- Visualised Car Park Management**
  - View bay status on an E-map in real-time, getting live feeds, parking time and plate number information by just one click. Multiple car park levels supported.
- Automatic Violation Report**
  - Two sets of violation information will be automatically sent to ZatPark. Strong evidence proving the vehicle has been parking in the bay over a certain time.

### Solution Architecture

