





Parking Management Made Smarter



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Introduction

High traffic roads in urban areas experience an excess of 30 percent in traffic due to vehicles looking for parking. AI-capable smart parking management system that helps to optimize the use of urban parking facilities and guides drivers to navigate through parking lots intelligently.



Parking Guidance
Vehicle Locating



Comprehensive Surveillance
High Definition



ANPR Entrance
Remote Control



Easy Installation
Unattended Management

Challenges

★Low efficiency in authorization

★Poor driver experience

★Management challenges and the burden of responsibility

Efficient parking management is on the cusp of a smart city transformation.

With the growing number of vehicles in the urban area, providing sufficient parking space with timely management features can be a daunting task. Even though computer vision is designed to assist in this regard, traditional technique relies on image processing for the detection of edge, corner and object of a license plate. The drawback with using feature extraction in image classification is that humans have to choose the features to look for in a given image. This becomes difficult and impractical with a large amount of objects one may be trying to classify. However, this process can be much more efficient and accurate by training a computer using deep learning to detect the most descriptive and obvious features of an object.



Up to Parking Level 9 →

Solution

Entrance & Exit

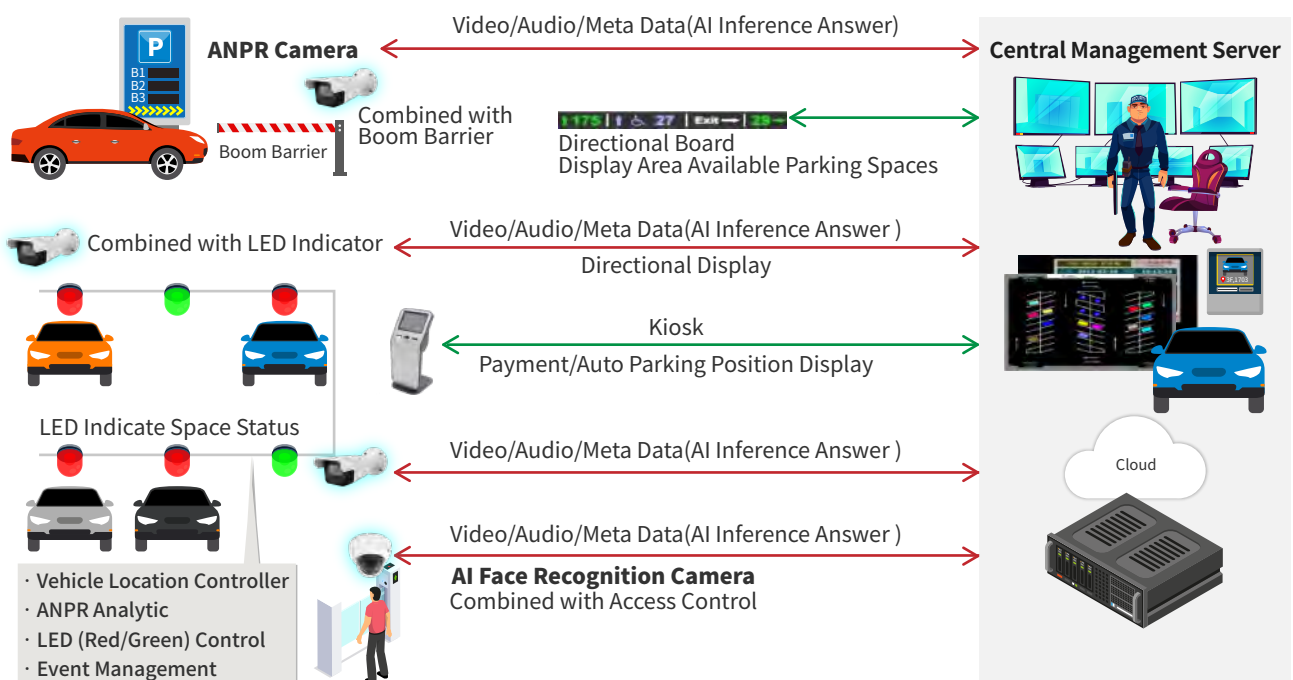
Ability offers VS1NNL0 ANPR AI Bullet camera, which can detect cars and recognize license plates. The license plate recognition can be combined with Boom Barrier at the entry and exit of a parking lot to facilitate access without any tickets. It improves traffic flow by removing delays.

Parking Guidance, Payment and VIP services

Car detection can be combined with LED indicators to calculate space occupancy and this information can be combined with kiosk payment for the display of available parking spaces. Furthermore, face recognition combined with access control can recognize people coming to the perimeter to aid in access control.

The system reduces unnecessary parking-related traffic and ensures optimum utilization of urban parking facilities. This also helps to reduce any environmental impact thus improving the quality of life in the city.

System Architecture



Result

Easy Come, Easy Go!

A smart parking system uses cameras and sensors to gather real-time data to measure parking occupancy. Ability AI-capable Smart Parking Solution helps you to digitize parking management and maximize the utilization of parking spaces. It collects data such as traffic flow, peak hours of any select parking facility, and other statistical information such as vehicle type distribution for the analysis of utilization trends. It also provides seamless parking experiences around-the-clock with the automatic payment method and space navigation guidance. From the perspective of city planning, the AI-capable Smart Parking Solution alleviates traffic congestion and reduces management cost to achieve traffic infrastructure optimization.

The Leading Manufacturer of AI Camera -Innovative ODM/OEM service provider-

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